

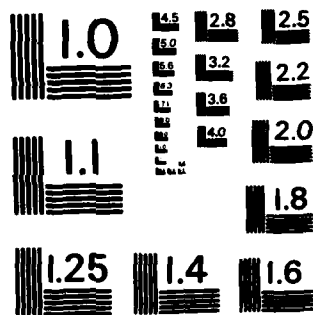
BAD KREUZNACH GERMANY(WEST) LIMITED SURFACE
OBSERVATIONS CLIMATIC SUMMARY..(U) AIR FORCE
ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER SCOTT A..
23 JAN 84 USAFETAC/DS-84/003 F/G 4/2

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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

DL 106265

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USAFETAC/DS-84/003

ADA140243

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USAFETAC
Air Weather Service (MAC)**

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**"LIMITED SURFACE OBSERVATIONS"
CLIMATIC SUMMARY "LISOCs"**

BAZ KREUZNACH DL MSC #106265
N 49 51 E 007 53 ELEV 345 FT EDEM
PARTS a-F HOURS SUMMARIZED: 0600Z - 1500Z

PERIOD OF RECORD:
HOURLY OBSERVATIONS: JUN 73 - MAY 83
SUMMARY OF DAY DATA: NONE

TIME CONVERSION GMT TO LST: +1

23 JAN 1984

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER USAFETAC/DS- 84/003	2. GOVT ACCESSION NO. AD-A140243	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Limited Surface Observations Climatic Summary (LISOCs) - BAD KREUZNACH, GERMANY (WEST)		5. TYPE OF REPORT & PERIOD COVERED Final Rept
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s)		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS USAFETAC/OL-A Air Force Environmental Technical Appl. Center Scott AFB IL 62225		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS USAFETAC/TS Air Weather Service (MAC) Scott AFB IL 62225		12. REPORT DATE JAN 84
		13. NUMBER OF PAGES 120
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report) UNCLASSIFIED
		15a. DECLASSIFICATION DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES Limited-duty weather observation site.		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
*LISOCs	Climatology	Weather conditions
*RUSSWO	Surface winds	Relative humidity
*Climatological data	Sea-level pressure	Station pressure
Psychrometric summary	Atmospheric pressure	Ceiling versus Visibility
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is similar to a Revised Uniform Summary of Surface Weather Observations (RUSSWO) except the summary generated is from data observed at limited-duty observation sites. This summary is blocked based on the normal hours of observation and only those tables using hourly data are presented. Caution must be exercised when using these summaries as the data reflect conditions occurring only during limited duty hours of operation. This report is a five-part statistical summary of surface weather observations for Bad Kreuznach, Germany (West).		

19. Percentage frequency of distribution tables
Dry-bulb temperature versus wet-bulb temperature
Cumulative percentage frequency of distribution tables

* GERMANY (WEST) *WEST GERMANY *GERMANY *BAD KREUZNACH *DL106265

20. It contains the following parts: (A) Weather Conditions; (C) Surface Winds; (D) Ceiling Versus Visibility; (E) Psychrometric Summaries (psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb and dew point temperatures and relative humidity); and (F) Pressure Summary (means, standard deviations and observation counts of station and/or sea-level pressure). Summaries in this report are presented in tabular form, in most cases in percentage frequency of occurrence or cumulative percentage frequency of occurrence tables.

REVIEW AND APPROVAL STATEMENT

This report, ETAC/DS-34/003 , is approved for public release. There is no objection to unlimited distribution of this report to the public at large, or by Defense Technical Information Center (DTIC) to the National Technical Information Service (NTIS).

This technical report has been reviewed and is approved for publication.

Wayne E. McCollom
WAYNE E. MCCOLLOM
Chief, Technical Information Section
USAFETAC/TST

FOR THE COMMANDER

Walter S. Burgmann
WALTER S. BURGMANN
Director, Air Weather Service
Technical Library

4 APR 1964



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Availability Codes	
Dist	Avail and/or Special
A-1	

The number that identifies the station in this summary is an AWS Master Station Catalog number. This number is comprised of the WMO number with the addition of a suffix zero; or, in cases where there is no designated WMO number, a 5-digit number created in agreement with WMO rules, plus a sixth qualifying digit. These numbers (also referred to as DATSAV or USAFETAC numbers) uniquely identify each of more than 15,000 reporting stations around the world. This is the provenance of the number (e.g., MSC 999999) which will appear on future OL-A standard products.

USAFETAC

LIMITED SURFACE OBSERVATIONS
CLIMATIC SUMMARIES (LISOCs)
HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at established hourly intervals.

SUMMARY OF THE DAY OBSERVATIONS

Summary of the day observations are selected from all data recorded on reporting forms and combined into these observations (records, record-specials, locals, summary of day, remarks, etc.).

DESCRIPTION OF SUMMARIES

Preceding each section is a brief description of the data comprising each part of the LISOCs and the manner of presentation. Tabulations are prepared from observations recorded by stations operated by the US Services and some foreign stations using similar reporting practices.

Unless otherwise noted, the following summaries are included in this LISOCs:

PART A: WEATHER CONDITIONS	DATA NOT AVAILABLE DAILY HIGH, LOW, AND MEAN TEMPERATURES
PART B: NO OR INSUFFICIENT DATA AVAILABLE*	DATA NOT AVAILABLE MAX HIGH AND MIN LOW TEMPERATURES
PART C: SURFACE WINDS	PSYCHROMETRIC: DRY VS WET BULB
PART D: CEILING VERSUS VISIBILITY	MEAN AND STD DEV. (DRY BULB, WET BULB, AND DEW POINT TEMPERATURES)
SKY COVER DATA NOT AVAILABLE	RELATIVE HUMIDITY
*PRECIPITATION, SNOWFALL AND SNOW DEPTH	PART F: STATION PRESSURE
	SEA LEVEL PRESSURE DATA NOT AVAILABLE

STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 local standard time (LST).

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUM
106265	BAD KREUZNACH GERMANY AAF	N 49 51	E 007 53	345	EDKH	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE HSL	
			FROM	TO			STATION LFT	BAROMETER
1	Bad Kreuznach Germany	AAF	Nov 59	Dec 70	N 49 52	E 007 53	355	N/A
2	No Chge	AAF	Jan 71	Sep 83	N 49 51	E 007 53	345	348

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CH
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1	Nov 59 to Feb 61	Located 40 ft E of bldg on top of tower	AN/GMQ-11	None	50 ft	
2	Mar 61 to Feb 62	Located on mast on tower.	No chge	None	60 ft	
3	Mar 62 to Feb 63	Located on top of tower cab.	No chge	None	80 ft	
4	Mar 63 to Feb 67	Located on top of control tower.	No chge	None	55 ft	

USAFETAC FORM 0-19 (OL A)

CONTINUED ON REVERSE SIDE

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
5.	Mar 67to Feb 69	Located on control tower.	No Chge	None	50 Ft	
6	Mar 69to Dec 70	Located atop operations bldg.	No Chge	None	15 Ft	
7	Unkn	Location approximately 1969 Ft East of the tower.	GMQ11	None	15 Ft	
8	Unkn	Location in the tower	No Chge	RO 362	15 Ft	

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

A

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFR WEATHER SERVICE/PAC

WEATHER CONDITIONS

106265 BAD KREULNACH DL

74-87

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	00-01												
	03-05												
	06-08		14.5	.5	4.7		19.2	44.3	5.7			5.0	476
	09-11		12.2	1.0	4.9		18.0	38.2	7.6			45.9	615
	12-14		9.8	.2	3.1		13.1	28.8	15.2			44.0	605
	15-17		8.5	.2	2.5		11.2	24.7	17.6			42.3	591
	18-2												
	21-23												
TOTALS			11.3	.5	3.8		15.4	34.0	11.5			45.6	2217

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 4265 BAD KREUNACH DL

74-87

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
FEB	00-02												
	03-05												
	06-08		9.0		4.5		13.2	54.5	11.1			65.6	78
	09-11		6.4		6.9		15.3	41.1	27.8			61.9	50
	12-14		6.4	.2	4.1		12.7	23.9	10.5			44.5	67
	15-17		7.9		2.3		17.1	19.7	31.8			51.1	557
	18-20												
	21-23												
TOTALS			8.4	.1	4.5		12.8	34.8	23.6			56.4	2757

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

176265

BAD KREUNACH DL

74-83

MAC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
MAP	00-02												
	03-05												
	06-08		14.6		2.2		16.5	38.3	10.3			54.5	418
	09-11		12.4		1.2		13.2	23.1	25.0			48.1	644
	12-14		8.5		1.3		9.4	7.8	29.5			37.4	637
	15-17		14.4		.8		15.0	3.2	24.1			27.3	619
	18-20												
	21-23												
TOTALS			12.5		1.4		13.5	18.1	23.7			41.8	2318

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106265

EAD KREUNACH DL

74-87

AP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
APR	00-02												
	03-05												
	06-08		9.6		.7		9.6	26.0	25.5			51.4	416
	09-11		5.8		.3		5.9	8.0	34.7			42.7	623
	12-14	.3	7.6		.2		7.6	1.2	22.1			23.3	635
	15-17	.6	10.9		.2		10.9	.2	12.4			12.6	532
	18-20												
	21-23												
TOTALS		.2	8.5		.4		8.5	8.9	23.7			32.5	2176

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 6265 BAD KREUZNACH DL

74-87

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
MAY	00-02												
	03-05												
	06-08		11.1				12.1	17.3	28.0			45.3	434
	09-11	.2	12.4				12.4	3.8	27.1			31.9	676
	12-14	.7	11.0				11.0	.9	11.3			12.2	584
	15-17	1.2	11.7				11.7	.6	5.3			5.8	513
	18-20												
	21-23												
TOTALS		.5	11.6				11.6	5.7	17.9			23.6	2107

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

174265 BAD KREUZNACH DL

73-87

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JUN	00-02												
	03-05												
	06-08	.7	8.3				8.3	14.5	24.8			39.2	408
	09-11	.2	7.2				7.2	3.6	23.9			27.5	614
	12-14	1.4	6.3				6.3	1.0	11.6			12.6	587
	15-17	.8	5.6				5.6	.4	6.2			6.6	532
	18-20												
	21-23												
TOTALS		.8	6.9				6.9	4.9	16.6			21.5	2141

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106265 EAD KREUZNACH DL

73-87

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JUL	00-02												
	03-05												
	06-08	.5	7.0				7.0	18.2	25.1			43.3	402
	09-11	.2	9.6				9.6	5.3	24.4			29.7	606
	12-14	1.0	7.0				7.0	1.7	12.1			13.8	596
	15-17	2.0	6.1				6.1	.7	6.1			6.9	540
	18-20												
	21-23												
TOTALS		.9	7.4				7.4	6.5	16.9			23.4	2140

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106265 EAD KREUZNACH DL 73-87 AUG
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
AUG	00-02												
	03-05												
	06-08	.2	5.5				5.5	29.4	22.2			51.6	419
	09-11	.2	4.9				4.9	9.4	30.9			40.4	627
	12-14	.5	6.4				6.4	1.5	20.9			22.4	612
	15-17	.7	5.5				5.5	1.2	13.9			15.2	561
	18-20												
	21-23												
TOTALS		.4	5.6				5.6	10.4	22.0			32.4	2219

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIF WEATHER SERVICE/MAC

WEATHER CONDITIONS

176265 BAD KREUZNACH DL 73-87 SEP

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	00-02												
	03-05												
	06-08		7.3				7.3	44.2	15.9			67.1	328
	09-11	.4	6.7				6.7	20.6	30.3			51.1	495
	12-14	.2	6.7				6.7	5.7	30.7			36.4	489
	15-17	.2	7.9				7.9	1.8	20.8			22.6	456
	18-20												
	21-23												
TOTALS		.2	7.2				7.2	18.1	24.4			42.6	1768

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

176265 SAC KREUZNACH DL 73-87 OCT
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
OCT	00-07												
	08-15												
	06-08		10.7				10.7	58.1	6.1			54.2	394
	09-11		11.8				11.8	44.8	12.3			57.1	594
	12-14	.2	9.5				9.5	24.4	20.1			44.5	587
	15-17	.5	8.3				8.3	15.8	18.4			34.2	564
	18-20												
	21-23												
TOTALS		.2	10.1				10.1	35.8	14.2			50.0	2139

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106265 840 KREUZNACH DL 73-80 NCV
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIR	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
NOV	00-02												
	03-05												
	06-08		11.1	.3	1.9		13.3	50.0	5.7			55.7	368
	09-11		12.3	.2	1.8		14.3	35.9	11.6			47.5	552
	12-14		9.1		1.3		10.2	20.0	17.9			37.9	549
	15-17		9.3		1.8		11.1	19.0	15.1			34.1	504
	18-20												
	21-23												
TOTALS			10.5	.1	1.7		12.2	31.2	12.6			43.8	1973

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

106265 EAD KREUZNACH DL

73-87

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	00-02												
	03-05												
	06-08		16.2	.5	3.4		19.8	42.6	5.2			47.8	383
	09-11		16.6	.3	5.2		21.8	33.8	10.9			44.7	595
	12-14		15.9	.9	5.4		21.5	21.5	17.0			33.5	553
	15-17		17.0		3.2		19.6	20.2	16.0			36.2	495
	18-20												
	21-23												
TOTALS			16.4	.4	4.3		20.7	29.5	12.3			41.8	2726

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

DATA NOT AVAILABLE

- *1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- *2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

Values for means and standard deviations do not include measurements from incomplete months.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

106265 STATION BAD KREUZNACH DL 74-87 YEARS JAN MONTH
ALL WEATHER CLASS 06 0-2800 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.7										.7	5.0
NNE	.5	.5										1.0	3.5
NE	.5	.5										1.0	3.5
ENE	1.0	.7	1.7									2.7	4.8
E	1.0	.2	.2	.2								1.7	4.7
ESE	1.2	.5										1.7	2.9
SE	.5	.2	.2	.2								1.2	5.4
SSE	1.0	.2										1.2	2.4
S	1.0	.5	.2									1.7	3.7
SSW	.5	1.5	.5	.2								2.7	5.2
SW	1.0	4.4	4.2	1.2								10.8	6.9
WSW	1.0	3.2	4.7	3.0								11.8	8.3
W	3.4	2.5	4.4	3.2	.5							14.0	7.8
WNW	.5	.5	.2	.7								2.0	7.4
NW	.5	.5			.5							1.5	9.5
NNW		.2	.2	.5								1.0	9.8
VARBL			1.5	1.7								3.2	11.4
CALM												39.9	
	13.5	17.0	17.5	11.1	1.0							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 406

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP W FATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

176265 STATION BAD KREUDNACH DL 74-62 YEARS MAY
STATION NAME CLASS 1900-1170
HOURS (LST)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2											.2	2.0
NNE	.7	.2										.3	2.4
NE	1.8	.7	.2	.2								2.8	3.5
ENE	1.5	.8	.5	.7								3.4	5.2
E	2.1	1.1	.5	.2								3.9	4.1
ESE	1.3	.5	.3									2.1	3.5
SE	1.5		.5									2.0	3.9
SSE	.2	.2										.3	3.5
S	1.3	.5										1.5	2.9
SSW	.7	1.6	.5	.2								2.9	5.8
SW	1.0	2.6	2.7	1.1								6.7	7.1
WSW	2.0	4.4	5.5	3.9	.3							16.1	8.5
W	2.4	.8	5.7	3.1	.3							12.4	6.4
WNW	1.5	1.7	.3	.8	.3							3.9	7.0
NW	.5				.2							.7	6.0
NNW		.3	.2									.5	5.3
VARBL		.2	2.3	3.1	.5							6.3	11.7
CALM												33.7	
	18.4	14.8	18.4	13.2	1.6							100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 615

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

10-265 SAF KPEU NACH DL 74-63 1955
STATION STATION NAME YEARS MONTHS
ALL WEATHER
CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.3	.3									1.2	4.4
NNE	1.2	.2	.2									1.6	2.8
NE	1.5	.5	.2	.5								2.7	5.2
ENE	1.5	1.2	1.7	.2								4.5	5.5
E	2.3	1.7	.5	.5								4.3	4.5
ESE	2.5	1.0	.7									4.1	3.6
SE	1.2	.7										1.3	3.2
SSE		.3										.3	4.0
S	.2	.5	.2									.3	4.6
SSW	.5	1.2	.5	.2								2.3	5.9
SW	.7	2.5	4.5	.7								3.3	7.5
WSW	1.2	3.3	7.5	4.7	.5							16.4	8.9
W	.7	3.0	5.5	4.1	.8							14.1	9.7
WNW		.8	1.0	.5	.7							3.0	10.3
NW		.5	.2	.2								.3	6.6
NNW	.2	.5	.3	.2								1.2	6.7
VARBL		.2	2.7	3.3	1.2	.3						7.6	12.9
CALM												25.0	
	13.9	17.6	25.7	14.3	3.2	.3						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 603

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

104765 STATION 640 KREUZNACH DL 74-83 YEARS JAN NORTH
ALL WEATHER CLASS 1500-1700 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	.8										1.0	4.8
NNE	.2	.2	.2									.5	6.3
NE	1.4	.8	.3	.2								2.7	3.9
ENE	2.2	1.5	.3									4.1	3.6
E	3.6	2.7	1.7	.5								7.1	4.5
ESE	1.0	.5	.3									1.9	3.8
SE	1.5	.8	.8	.2								3.4	4.9
SSE	1.4											1.4	2.0
S	.5	.8	.5									1.9	5.4
SSW	.7	1.0	.8	.2								2.7	5.9
SW	1.7	2.4	2.2	1.7								6.6	6.8
WSW	.7	3.4	6.1	5.1	.3	.3						15.9	9.3
W	1.5	3.9	4.7	4.6	.5							15.2	8.7
WNW	.5	1.5	1.4	.3	.5							4.2	8.4
NW	.3	.5										.8	4.6
NNW	.3	.5	.2	.3								1.4	7.1
VARBL			2.9	3.2	.7							6.8	11.8
CALM												22.5	
	16.9	20.8	21.8	15.6	2.0	.3						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 591

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

116265 BAL KREUZNACH DL 74-87 FEB
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION
2600-2600
HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.5										1.1	3.5
NNE	1.1	.3	.5									1.9	4.4
NE	1.3	2.9	1.3									5.6	5.0
ENE	2.1	2.4	1.9	.5								6.9	5.3
E	2.1	1.6	1.3									5.0	4.4
ESE	1.1	1.1	.3									2.4	4.0
SE	.8		.3									1.1	3.5
SSE	.3	.3										.5	3.5
S	.5	1.1										1.6	3.5
SSW	.5	.5	.3	.3								1.6	5.8
SW	.8	2.4	1.1	1.1								5.3	6.7
WSW	2.9	2.1	2.9	.8								8.7	5.6
W	2.6	2.1	1.6	.3								6.5	5.0
WNW		.3	.5									.8	8.0
NW	.3		.3									.5	6.0
NNW	.3											.3	3.0
VARBL			.8	.5	.5							1.9	12.7
CALM												48.4	
	17.2	17.5	13.0	3.4	.5							100.0	2.8

TOTAL NUMBER OF OBSERVATIONS 378

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

176265
STATION

BAD KREUZNACH DL
STATION NAME

74-63
YEARS

FEB
MONTH

ALL WEATHER
CLASS

0900-1100
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	.2	.7									1.8	4.9
NNE	2.1	1.6	.2									3.9	3.4
NE	1.4	1.1	1.1	.5								4.1	5.8
ENE	1.6	4.3	2.8	.7								9.4	6.3
E	3.4	2.1	4.3	.4								10.2	5.6
ESE	1.2	1.2										2.5	3.0
SE	.2		.2									.4	4.5
SSE		.2										.2	4.0
S	.4	1.1										1.4	4.0
SSW	.5	.9	.7									2.1	5.0
SW	.7	.5	2.7	.9								4.8	7.5
WSW	.7	2.7	3.7	.5								6.9	7.0
W	2.9	2.8	3.2	1.1								10.3	6.2
WNW	.2	.7	.5	.2								1.6	6.0
NW	.2	.2	.2	.4								.9	8.4
NNW			.4									.4	9.0
VARBL			1.4	.9	.5	.2	.2					3.2	13.5
CALM												36.3	
	16.4	18.9	22.1	5.5	.5	.2	.2					100.0	4.0

TOTAL NUMBER OF OBSERVATIONS

562

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ATP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 0265 STATION BAD KREUNACH DL 74-83 YEARS FEB MONTH
ALL WEATHER CLASS 1200-1400 HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.2	.2									2.5	4.1
NNE	1.6	2.5	.7									4.8	4.8
NE	1.6	2.5	.9	1.1								5.5	5.9
ENE	1.2	3.7	3.7	1.8								9.8	7.5
E	4.3	5.9	4.1	.5								14.9	5.5
ESE	1.1	2.5	.2									3.2	4.1
SE	.7	.7										1.4	3.9
SSE	.2	.2	.4									.7	5.5
S	.7	.5	.5									1.8	4.8
SSW	.4	.7	.4	.5								2.0	7.0
SW	.5	1.2	1.8	.5								4.1	7.2
WSW		1.8	3.7	2.0								7.5	9.1
W	1.1	2.5	2.9	2.3								8.7	7.9
WNW	.9	.5	.7	.4								2.5	6.4
NW	.4		.7	.5								1.6	8.7
NNW			.2	.2								.4	9.0
VARBL			2.7	2.0	.2	.2	.2					5.2	11.6
CALM												23.4	
	15.7	24.8	23.7	11.8	.2	.2	.2					100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 560

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

14265 BAU KREUZNACH DL 74-83 FEB
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION
1522-1700
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	.7										2.3	3.5
NNE	2.0	2.2	.9	.2								5.2	4.6
NE	2.9	2.7	2.5	.7								8.8	5.5
ENE	2.9	2.9	2.9	1.1								9.7	5.7
E	4.1	4.3	2.3	.7								11.5	5.1
ESE	2.7	2.2	.5									5.4	3.7
SE	.9	1.3	.4									2.5	4.1
SSE	.4	.4	.4									1.1	4.3
S	.7	.5	.4									1.6	4.2
SSW	1.1	.9	.7									2.7	4.9
SW	1.1	2.7	.9	.4								4.3	5.7
WSW	.9	2.2	2.9	2.2								8.1	7.9
W	1.3	1.4	2.7	1.3								6.6	7.5
WNW	.5	.7	.4	.5								2.2	6.9
NW	.4	.9	.4	.2								1.8	6.2
NNW	.5	.5										1.1	3.3
VARBL			2.7	1.6	.4							4.7	11.1
CALM												20.5	
	23.9	25.7	20.8	8.8	.4							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 557

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

106265
STATION

HAD KREUZNACH DL
STATION NAME

74-83
YEARS

MAR
MONTH

ALL WEATHER
CLASS

0600-0800
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	.7									2.2	5.0
NNE	1.7	1.2	.2									3.1	3.5
NE	1.3	.2	.5	.2								1.9	5.6
ENE	1.4	.7	.7									2.9	4.5
E	1.9	.7										2.6	2.9
ESE	1.0	.5	.5									1.9	4.1
SE	.2	.5										.7	4.0
SSE	.2											.2	2.0
S	.5	.5										1.0	4.3
SSW	1.2	2.6	.7									4.5	4.8
SW	1.4	1.9	1.4	1.0		.5						6.2	7.6
WSW	3.3	4.1	4.1	1.9								13.4	6.5
W	3.1	3.6	3.3	1.0								11.0	6.1
WNW	1.4	.7										2.2	2.8
NW	.5	.5										1.0	3.5
NNW		.5	.5	.5								1.4	9.2
VARBL			2.9	1.2								4.1	10.1
CALM												39.7	
	19.6	18.9	15.6	5.7		.5						100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 418

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

176265

EAD KREUZNACH DL

74-83

MAC

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

930-1100

MOON (L & V)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.2	.5	.9								4.5	5.6
NNE	1.9	1.7	.2	.2								3.9	4.0
NE	1.6	1.6	1.2	.6	.2							5.1	6.2
ENE	1.6	1.2	1.4	.5								4.7	5.7
E	2.7	1.6	.9	.6								5.1	5.9
ESE	.5	.9	.3	.2								1.7	5.6
SE	.6	.3										.9	2.7
SSE	.3											.3	3.0
S	.2	.3	.3									.8	5.8
SSW	.3	1.1	1.2	.2								2.8	6.9
SW	.6	3.0	4.2	.6	.2	.5						9.0	8.0
WSW	1.6	4.3	5.4	2.7	.5							13.8	7.6
W	2.6	3.3	2.6	2.7								10.6	6.5
WNW	.5	.6	.5		.2							1.7	6.5
NW	.6	.3	.5									1.4	4.4
NNW	.5	.9	.2	.5								2.0	6.6
VARBL			3.7	4.7	.6							9.0	11.7
CALM												22.7	
	17.1	22.2	23.1	12.9	1.6	.5						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

688

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

176265 PAD KREUZNACH DL 74-83 MAP
STATION STATION NAME YEARS MONTHS
ALL WEATHER 1200-1400
CLASS HOURS (L.S.T.)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.3	.6	.3	.2							4.1	5.5
NNE	2.0	1.4	.9	.9								5.3	5.7
NE	.9	.6	.8	.6								3.2	6.5
ENE	1.1	1.7	1.7	.6	.2							5.3	7.0
E	3.3	3.7	2.7	.3								9.3	5.2
ESE	1.1	.5	.3	.2								2.2	4.9
SE	.5	.2		.6								1.3	8.1
SSE	.3	.3	.3									.9	5.3
S	.6	.9	.5									2.0	4.9
SSW	.5	.9	1.3	.3								3.0	6.8
SW	.8	1.9	3.5	1.9	.5	.2						8.6	9.3
WSW	.9	3.3	4.4	4.7	.3							13.7	9.1
W	2.2	3.1	4.4	2.8	.2							12.7	7.9
WNW	.8	.9	1.1	.5								3.3	6.3
NW	.5	.3	.5									1.3	5.6
NNW	.5	.6	.9	.2	.2							2.4	7.1
VARBL			6.9	4.9	.8							12.6	11.3
CALM												9.1	
	17.7	21.2	30.8	18.8	2.2	.2						170.0	7.1

TOTAL NUMBER OF OBSERVATIONS 637

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

176265 STATION BAD KREUZNACH DL 74-83 YEARS 1502-1796
STATION NAME DATE
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	1.1	1.0	.8									2.9	4.7
NNE	2.3	.6	1.5	1.1	.2							5.7	6.9
NE	1.1	.8	.6	.3								2.9	5.6
ENE	.5	2.3	.5	.5								3.7	6.7
E	2.3	1.9	1.6	.5								6.3	5.3
ESE	1.8	1.1	1.9	.2								5.2	5.5
SE	.5	1.1	.6	.2								2.4	5.9
SSE	.5	.2	.2									.8	4.2
S	.5	1.7	.6									2.1	5.4
SSW	.3	2.4	1.5	.3								4.5	6.2
SW	.3	2.6	4.0	1.8	.3							9.1	8.6
WSW	1.1	2.8	4.5	3.2	.2							11.8	8.4
W	1.0	2.8	4.5	2.8	.2							11.2	8.3
WNW	1.5	2.4	1.1	.6								5.7	5.8
NW	.3	1.5	.8	.2								2.8	6.2
NNW	.2	1.1	.6	.3								2.3	6.9
VARBL			6.3	4.7	.2	.2						11.3	10.8
CALM												9.5	
	15.2	25.6	31.9	16.7	1.0	.2						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 618

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

14265 BAD KREUZNACH DL 74-83 AP2
STATION STATION NAME YEARS MONTHS
ALL WEATHER CLASS 1600-2400 HOURS (LST)
CONDITION

SPEED (KNTS) Dir	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	1.4	1.0									4.8	4.2
NNE	1.9	1.4	.7									4.1	4.2
NE	1.2	.5	1.0	.2								2.9	5.3
ENE	1.0											1.0	2.5
E	.5		.2	.2								1.0	6.3
ESE	.2											.2	3.0
SE	.2											.2	1.0
SSE	.2											.2	1.0
S		.2										.2	5.0
SSW	.5	1.4	.5									2.4	5.3
SW	.7	2.4	2.9									6.0	6.3
WSW	3.4	3.4	1.4	1.0								9.1	5.5
W	7.5	3.1	4.3	1.2								16.1	4.9
WNW	.5	1.0	.2									1.7	4.3
NW	1.2	.7										1.9	3.6
NNW	1.0	1.4	.7									3.1	4.8
VARBL			1.0	.7								1.7	10.4
CALM												43.3	
	22.4	17.1	13.9	3.4								100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 416

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

16265 BAG KREUZNACH DL 74-83 APR
STATION STATION NAME YEARS MONTHS
ALL WEATHER 1970-1970
CLASS MONTHS (L & T)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	2.2	3.4	.8								8.3	4.5
NNE	4.0	2.4	1.4	.7								8.7	4.3
NE	2.1	1.4	.6	.5	.3							5.1	5.5
ENE	3.4	2.1	.9	.8	.2							7.2	5.1
E	2.7	2.6	1.9	.2								7.4	5.0
ESE	.6	.3	.2									1.1	3.6
SE	.5	.2	.2									.8	3.6
SSE		.3										.3	5.0
S	.2	.2	.2									.5	5.0
SSW	.5	.3	.8	.2								1.8	6.7
SW	.2	1.6	2.1	.6								4.5	7.3
WSW	.3	3.0	2.7	1.1	.2							7.4	7.6
W	.8	2.1	3.7	3.9								10.4	8.8
WNW	.8	1.3	.5	.3								2.9	5.8
NW	.2	.6	.6	.5								1.9	7.5
NNW	.8	.8	.5	.2								2.2	5.1
VARBL			5.5	3.2	.2							8.8	9.8
CALM												71.3	
	18.9	21.5	25.0	12.4	.8							100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 623

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 1-6265 STATION NAME BAD KREUZNACH DL YEARS 74-83 APP APR
NORTH
CLASS ALL WEATHER HOURS (LST) 1200-1400
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.7	1.7	1.0								5.6	6.9
NNE	1.8	2.6	1.2	.2								5.8	4.9
NE	1.3	2.3	1.5	1.2	.7							6.6	7.2
ENE	2.5	1.8	1.7	.7								6.0	4.9
E	3.8	4.6	1.7	.7								10.7	5.2
ESE	2.7	2.3	1.7									6.0	4.8
SE	.8	.7		.2								1.7	4.7
SSE	.7	.5	.2									1.3	3.8
S	.3	.2	.5									1.0	5.3
SSW		.8	1.2	.2								2.1	7.2
SW	.7	1.5	2.3	1.2								5.1	8.1
WSW	.8	2.7	3.0	2.3								8.1	8.4
W	1.0	1.9	3.6	2.3	.2							8.9	8.5
WNW	.5	1.8	1.5	.7	.2							4.6	7.4
NW	.2	1.7	.8	.5								2.5	7.9
NNW	.8	1.0	2.0	1.7								4.8	7.5
VARBL		.2	8.3	4.5	.3							13.2	9.8
CALM												6.0	
	18.0	26.8	31.9	16.4	1.7							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 625

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1-6265 STATION NAME SAD KREUNACH DL YEARS 74-83 MONTH APR
CLASS ALL WEATHER MONTHS 1500-1700
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.6	2.6	2.6								9.6	7.9
NNE	1.1	2.3	.6	.6								4.5	3.6
NE	1.5	2.1	1.1	1.3	.6							6.6	7.6
ENE	1.1	2.1	2.1	1.1								6.4	7.2
E	1.7	5.3	2.1	.2								9.2	5.7
ESE	1.7	3.2	1.9									6.6	5.0
SE	.4	1.1	.2									1.7	4.3
SSE		.2	.9	.2								1.3	6.1
S	.6	.2	.2									.2	3.8
SSW	.9	.3	1.6	.2								3.4	5.9
SW	.6	2.6	3.2	.6								6.8	6.8
WSW	.8	2.1	3.2	1.7	.2							7.9	8.3
W	.8	3.4	4.3	.9								9.4	7.2
WNW	.4	1.5	1.9	1.7	.2							5.3	8.5
NW	.6	1.5	1.3	.6								3.9	7.1
NNW	.6	1.1	2.1	.6								4.3	7.4
VARBL			5.6	2.4								6.1	9.5
CALM												4.1	
	14.3	31.8	34.6	14.3	.9							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 532

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 1 6265 BAD KFEURNACH DL STATION NAME 74-83 YEARS MAY MONTH 610-0800 HOURS (LST) ALL WEATHER CLASS CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.5	1.0	.5								1.2	1.2
NNE	2.0	1.2	.5									2.7	3.7
NE	.5	.5	.2									1.2	4.3
ENE	2.0	1.2	1.7									1.2	2.0
E	1.2	1.0	2.0	.2								4.5	6.3
ESE	.2		.2									.2	5.2
SE													
SSE	.2	.2										.2	4.5
S	1.0		.2									1.2	1.2
SSW	.2	.2										.2	4.5
SW	1.2	1.5	1.5	.2								4.5	5.7
WSW	4.0	2.5	2.0	1.0								5.5	2.5
W	6.2	5.0	2.0	.2								14.1	4.6
WNW	2.2	1.0	.2									3.2	1.6
NW		.2	.7	.2								1.2	2.8
NNW		.2		.2								.5	2.2
VARBL			1.5		.2							1.7	9.9
CALM												42.6	
	23.0	16.8	14.6	2.7	.2							100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 424

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

104265 BAD KREULNACH DL 74-83 MAY
STATION STATION NAME YEARS MONTH
ALL WEATHER 1970-1979
CLASS HOURS (L & T)
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.9	1.3	.2								2.3	4.8
NNE	3.0	1.2	.3	.2								4.2	3.6
NE	1.3	1.5	1.3	.5								5.1	5.6
ENE	3.1	2.3	2.5	.8								7.8	6.1
E	5.3	3.5	2.1	.7								11.6	4.6
ESE	2.0	1.5	.3	.5								4.0	4.5
SE	.3		.2									.5	3.7
SSE	.2	.2										.5	3.7
S	.2	.5										1.2	3.9
SSW		.5	.8	.3								1.7	8.2
SW	1.5	2.5	1.2	.2								5.3	5.3
WSW	1.0	4.5	4.0	.3	.2							9.9	6.6
W	1.7	4.0	2.6	1.0	.2	.2						9.6	7.1
WNW	1.5	.5	.3	.5	.2							3.0	6.3
NW	.8	.5	.5									1.6	5.0
NNW		.2	1.3	.2								2.1	7.7
VARBL			3.1	2.5	.2							5.8	10.5
CALM												19.7	
	24.0	25.8	22.0	7.8	.7	.2						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 605

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

174265
STATION

BAO KREUNACH DL
STATION NAME

74-87
YEARS

MAY
MONTH

ALL WEATHER
CLASS

1200-1400
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	1.5	1.4	.5								6.2	5.1
NNE	1.9	.9	1.0									3.8	4.7
NE	1.5	.5	1.7	.7	.7							4.6	7.1
ENE	1.9	2.4	1.4	1.5								7.2	6.6
E	4.1	3.9	2.2	.3								12.6	4.9
ESE	1.7	3.9	2.2	.2								8.0	5.5
SE	.9	1.2	.3									2.4	4.7
SSE	.3	1.4	.3									2.1	4.7
S		1.0	.2	.2								1.4	6.4
SSW	.7	1.5	1.4	.7								3.8	6.4
SW	.9	2.4	.9	.9	.2							5.1	6.7
WSW	1.7	3.3	3.6	.7								9.2	6.4
W	1.2	2.4	3.8	1.2	.2							9.7	7.8
WNW	.5	1.0	1.4	1.2								4.1	6.3
NW	.7	.9	1.0	.2								2.7	6.1
NNW	1.0	1.4	1.7	.2								4.3	5.8
VARBL			6.7	1.9								8.6	9.4
CALM												7.4	
	21.6	29.6	31.2	9.8	.5							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

584

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 6265
STATION

BAD KREUZNACH DL
STATION NAME

74-83
YEARS

MAY
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.5	2.9	1.2								7.7	7.5
NNE	1.8	1.0	.4	.6								3.7	5.2
NE	1.9	1.4	1.4	.4	.2							5.3	6.1
ENE	1.2	2.7	1.2	.8								5.8	6.2
E	2.5	5.7	3.5	.6								12.3	5.7
ESE	2.7	2.5	1.2	.2								6.6	4.5
SE	1.7	1.9	.4	.2								3.5	5.1
SSE	1.7	.4	.2									1.6	3.3
S	.2	1.3	.4									1.6	5.4
SSW	1.7	2.1	1.2	.4								4.7	6.1
SW	.4	2.9	2.7	1.7								7.0	7.4
WSW	.4	3.5	2.7	1.7								7.6	7.3
W	1.9	2.5	5.1	2.1								11.5	7.8
WNW	.4	1.6	1.2	1.9								5.1	8.6
NW	.2	1.0	1.2	.2								2.5	6.9
NNW	.8	.2	1.8	.6								3.3	7.5
VARBL		.8	4.1	1.2								6.0	8.9
CALM												4.9	
	17.5	33.7	31.4	12.3	.2							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

513

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 265 STATION BAD KREUNACH DL 73-82 JUS
STATION NAME YEARS MONTHS
ALL WEATHER
CLAS
HOURS (LST)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.2	2.0									5.2	5.2
NNE	2.9	1.2	.2									4.4	3.1
NE	1.0	.2	.2									1.5	3.2
ENE	.7		.7									1.0	2.8
E	.7	.2										1.0	2.8
ESE			.2									.2	10.0
SE													
SSE													
S													
SSW	.2	.7	.5									1.5	5.2
SW	2.9	1.7	.7									5.4	4.0
WSW	4.4	4.7	3.4	.7								13.2	5.3
W	6.4	5.4	2.2	.7								14.7	4.6
WNW	3.7	.7	.7	.2								5.4	3.9
NW	.7	.7	.5	.2								2.2	5.7
NNW	1.2	.7	.7									2.7	5.1
VARBL			2.2	.2								2.5	8.7
CALM												18.5	
	26.7	18.6	14.0	2.2								100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 408

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

106265 BAD KREUNACH DL 77-82 JAN 1987-1988
STATION STATION NAME YEARS MONTHS
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.3	2.3	.2								6.2	5.9
NNE	4.2	3.6	1.0									8.8	3.9
NE	2.0	2.0	.5	.2								4.6	4.3
ENE	2.3	2.7	.5									4.4	3.9
E	4.1	2.4	1.5	.2								8.1	4.3
ESE	2.1	.3	.3									2.8	2.9
SE	.7											.7	1.8
SSE	.7	.2										.8	2.2
S	.7	.3										1.0	3.0
SSW	.7	.7	.8									2.1	5.2
SW	1.1	3.1	1.1	.2								5.5	5.3
WSW	1.3	5.2	3.1	1.3								10.9	6.9
W	1.6	3.3	5.0	1.8	.3							12.1	7.6
WNW	.5	.8	1.0	.2								2.4	6.5
NW	1.2	.5	.3	.2								2.0	5.2
NNW	.7	1.8	1.1									3.6	6.0
VARBL			4.6	2.0								6.5	9.6
CALM												17.8	
	24.4	28.3	23.1	6.0	.3							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 614

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

14265 BAD KREUZNACH DL 77-82 JUL
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION
1230-1400
HOURS (L E T)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	2.4	2.7	.5								5.8	6.8
NNE	1.4	3.2	1.5									6.1	5.2
NE	1.9	2.4	.5	.2								4.9	4.6
ENE	1.9	2.4	1.5	.2								6.3	5.3
E	2.7	3.4	1.9									7.3	5.1
ESE	1.7	1.5	.5									3.1	5.0
SE	.9	.7	.9									2.4	5.1
SSE	1.7	.3										1.4	3.2
S	1.2	.9										2.0	3.4
SSW	.5	.9	.7									2.0	5.3
SW	.5	4.4	2.4	.9								8.2	6.6
WSW	.5	4.8	2.9	1.4								9.5	7.0
W	1.4	4.3	7.3	2.9	.2							16.0	7.9
WNW	1.2	2.7	.5	.2								3.9	5.0
NW	.2	1.5	1.4	.2								3.2	6.8
NNW	1.7	.7	1.7	.2								2.9	6.2
VARBL		.3	6.7	2.4	.2							8.9	9.8
CALM												6.3	
	17.4	36.1	31.0	8.9	.3							170.0	6.1

TOTAL NUMBER OF OBSERVATIONS 587

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

176265 BAO KREUNACH DL 73-82 JUN
STATION NAME STATION NAME YEARS MONTHS
ALL WEATHER 1577-1700
CLIM CLIM
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	3.2	3.9	1.9								15.9	6.9
NNE	1.5	2.1	1.7	.2								5.5	5.7
NE	.6	1.3	1.1	.2								2.2	6.2
ENE	1.1	1.3	2.1	.4								4.9	6.2
E	1.7	3.6	2.8	.4								8.5	5.7
ESE	1.3	2.1	.6	.2								4.1	4.8
SE	.6	.9	.4									1.9	5.1
SSE	.8	.9	.2									1.9	4.2
S	.6	1.3	.2									2.1	4.2
SSW	.4	1.1	.2	.2								1.9	5.3
SW	.8	2.4	2.6	.2								6.0	6.3
WSW	1.1	5.3	5.3	.8								12.4	7.1
W	2.1	3.2	5.6	1.9								12.8	7.3
WNW	.9	2.1	1.1	.8								4.9	6.6
NW	.4	.6	1.3									2.3	6.7
NNW	.8	.8	1.7	.8								3.9	7.6
VARBL			5.1	2.1	.2							7.3	10.0
CALM												5.6	
	16.4	32.1	35.9	9.8	.2							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 532

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

106265 STATION BAD KREUZNACH DL 73-82 YEARS JUL MONTH
2600-2800 HOURS (L.S.T.)
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.2	2.2									5.5	5.6
NNE	.7	1.0										1.7	3.9
NE	.7	.2	.2									1.2	3.2
ENE	1.2	.2	.2									1.7	3.0
E	.2	.2	.2									.7	4.7
ESE	.2											.2	3.0
SE													
SSE	.2											.2	3.0
S	.7											.7	2.3
SSW	1.5	.7										2.2	3.0
SW	4.2	2.5	1.7									8.5	4.1
WSW	4.5	6.7	5.0									15.4	5.0
W	8.7	4.5	2.5	.2								15.2	4.1
WNW	1.2	.5	.2									1.7	3.3
NW	.5	.5	.2									1.2	4.2
NNW	.5	.2	.5									1.2	5.4
VARBL			.5									.5	8.5
CALM												41.8	
	26.4	17.9	13.7	.2								100.0	2.6

TOTAL NUMBER OF OBSERVATIONS 402

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

16265 BAL KREUZNACH DL 77-82 JUL
STATION STATION NAME YEARS MONTH
ALL WEATHER 1900-1970
CLASS HOURS (L & T)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	3.0	3.0									7.6	5.8
NNE	1.7	1.7	.3									3.6	3.8
NE	2.3	1.3	.3									4.5	3.2
ENE	3.5	1.3										4.8	2.8
E	4.1	2.6	.8									7.6	3.9
ESE	.7	.8	.5									2.0	4.9
SE	.2	.2										.3	4.0
SSE	.5											.5	1.7
S	.7	.2	.2									1.0	4.2
SSW	1.2	1.7	.2									3.0	3.8
SW	2.0	3.5	4.1	.2								7.8	5.8
WSW	2.5	6.0	3.5	.3								15.2	5.7
W	2.3	5.5	6.6	1.7		.7						15.9	7.2
WNW	1.2	1.7	.5									3.3	4.9
NW	.2	.8	.3									1.3	5.6
NNW	1.8	.7	.5	.2								3.1	4.1
VARBL		.3	3.8	.3								4.5	8.4
CALM												15.0	
	26.4	31.1	24.6	2.6		.2						100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 675

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 16265 EAD KREUZNACH DL 77-82 77
STATION NAME YEARS MONTH
CLASS ALL WEATHER 1200-1400
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.8	2.9	3.0	.3								3.1	0.1
NNE	.7	2.0	1.3	.2								4.2	5.5
NE	1.8	2.2	.5									4.5	4.2
ENE	1.8	1.7	.2									3.4	3.8
E	3.2	3.9	1.7									8.1	4.5
ESE	1.3	2.2	.2									3.7	4.2
SE	.3	.5	.5									1.3	5.6
SSE	.2	.2	.2									.2	4.7
S	.3	1.7	.2									2.0	4.1
SSW	.8	1.7	.7									2.5	5.1
SW	1.2	2.5	2.7	.7								7.2	6.4
WSW	1.7	6.2	4.0	1.2								13.1	6.5
W	1.7	2.7	8.9	2.5	.2							15.9	8.2
WNW	1.2	1.3	1.2	1.0	.2							4.9	7.0
NW	.5	.7	.5	.2								1.8	5.8
NNW	1.2	1.7	.7	.2								3.7	5.2
VARBL		.3	7.4	2.3								10.1	9.3
CALM												5.2	
	20.3	32.6	33.1	8.6	.3							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 596

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 6065 STATION NAME: 6AD KREUZNACH DL 77-82 JUL 1999-1700
STATION MONTHS HOURS (LST)
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	3.7	4.3	.9								1.7	6.8
NNE	1.7	1.5	1.1									4.3	4.9
NE	.9	1.7	.2									2.4	4.5
ENE	.7	2.4	.7									3.9	5.1
E	2.9	3.1	.2									6.1	3.9
ESE	1.5	1.5	1.1									4.1	4.9
SE	.2	1.1	.4									1.7	4.9
SSE	.4	.2	.4									.9	5.4
S	1.1	.7	.2	.2								2.2	4.3
SSW	.4	1.3	.9									2.5	6.0
SW	.2	1.9	3.7	.2								5.2	7.3
WSW	.7	3.5	5.4	1.7								11.3	7.7
W	1.1	4.9	10.9	3.3	.2							20.4	8.4
WNW	1.3	1.5	1.9	.6	.2							5.4	6.6
NW	1.1	2.2	.2	.4								3.9	5.3
NNW	.2	.4	1.1									1.7	7.0
VARBL		.4	6.5	1.5								8.3	6.9
CALM												5.0	
	16.1	31.5	38.3	8.7	.4							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 540

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-6265 EAG KREUNACH DL 77-82 1977-1982
STATION STATION NAME YEARS MONTHS
ALL WEATHER 622-2800
CLASS HOURS (LST)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	.7	.5									2.2	4.1
NNE	.5	.5										1.0	3.3
NE		.2										.2	3.7
ENE	1.7	.2										1.2	2.6
E	.2	.2	.2									.7	4.7
ESE	.2											.2	2.0
SE													
SSE	.5											.5	2.2
S	.5											.5	2.7
SSW	1.2	.2										1.2	2.7
SW	1.7	1.4	.7									3.8	4.3
WSW	6.7	4.1	1.7									11.7	4.1
W	8.6	3.8	2.6									15.1	3.8
WNW	.5	.5	.2									1.2	5.2
NW	.2	.2										.5	3.0
NNW	1.7	.2	1.7									2.9	4.7
VARBL			1.7	.2								1.2	8.0
CALM												55.5	
	23.9	12.4	7.9	.2								100.0	1.8

TOTAL NUMBER OF OBSERVATIONS 418

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-6265 STATION 5AD KREUZNACH DL 77-82 YEARS ALL MONTH 900-1100 HOURS (LST)
CLASS ALL WEATHER
CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	3.5	2.2	.6								2.3	6.4
NNE	2.4	2.6	.5									2.4	3.9
NE	2.6	1.3	.7									3.2	3.3
ENE	2.9	1.8	.5									5.1	3.7
E	2.2	3.0	1.4									6.7	4.6
ESE	1.1	1.3	.2									2.8	3.9
SE	.2											.2	2.0
SSE	.2											.2	2.0
S	.5		.7									1.1	3.4
SSW	.5	.9	.3									1.8	4.4
SW	1.3	2.9	1.1	.3								5.6	5.4
WSW	2.7	5.1	3.4	.3								11.3	5.5
W	2.1	3.8	3.8	.6								12.4	6.1
WNW	1.3	.6	.5	.3								2.7	5.2
NW	.5	.8	.5									1.3	4.6
NNW	1.7	1.3	1.7	.3								3.3	5.2
VARBL			3.4	.6								4.0	8.7
CALM												25.7	
	23.0	28.8	19.3	3.2								100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 626

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

14265 STATION 040 KREUZNACH DL 77-82 YEAR 1977-1978 MONTHS 1-12 HOURS (LST) ALL WEATHER CLASS CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N	1.1	2.6	2.1	.7								4.2
NNE	2.3	3.1	1.5									4.8
NE	1.3	1.5	.5									4.2
ENE	1.6	1.5	.7	.3								5.1
E	2.0	4.7	2.0	.3								5.8
ESE	1.1	2.9	1.6									5.3
SE	.8	1.1	.9									5.3
SSE	.7	.7	.7									4.2
S	.7	.5										2.6
SSW	1.0	2.9	1.5	.3								5.6
SW	1.0	2.0	2.1	.3								6.1
WSW	2.5	4.2	3.1	.5								5.3
W	1.1	4.4	4.6	1.6								7.1
WNW	.5	1.8	2.7	.3								7.1
NW	1.7	1.7	.5									4.6
NNW	1.1	2.3	1.0									5.0
VARBL		.3	5.7	1.1								7.2
CALM												5.7
	19.8	38.2	30.7	5.6								5.6

TOTAL NUMBER OF OBSERVATIONS 612

CLIMAT CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 100265 STATION NAME BAO KHEU NACH DL YEARS 77-80 MONTH ALL

CLASS ALL WEATHER

CONDITION 1500-1700

HOURLS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.3	4.1	5.4	.7								12.0	6.5
NNE	1.8	2.1	1.8	.7								6.4	5.9
NE	.5	1.2	.7									2.3	4.9
ENE	1.2	1.9	.5									3.6	4.5
E	1.4	4.8	2.7									8.9	5.8
ESE	1.1	3.9	1.4									6.4	5.3
SE	.7	.9	.9									2.5	5.2
SSE	1.4	.4	.2									2.0	3.3
S	.4	1.6										2.0	4.7
SSW	.5	1.4	1.8									3.7	6.5
SW	.4	2.9	1.8	.2								5.2	6.2
WSW	1.4	4.5	3.7	.9								10.0	6.7
W	1.6	5.9	5.5	1.4								14.5	7.0
WNW	.2	1.8	1.1	.5								3.5	6.9
NW	.7	.7	1.1	.2								2.7	5.9
NNW	.9	1.4	1.4									3.7	5.8
VARBL			5.2	.7								5.9	8.9
CALM												3.9	
	16.6	39.5	34.6	5.4								100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 560

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

176265 STATION BAD KPEUNNACH DL STATION NAME 77-62 YEARS SEP
CLASS ALL WEATHER MONTHS (L S T) 7600-2800
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.5										.5	5.0
NNE	1.2											1.2	2.5
NE													
ENE													
E	.6											.6	2.5
ESE	.6											.6	1.5
SE													
SSE	.6											.6	2.0
S	1.5	.3	.3									2.1	2.9
SSW	1.5	.3	.3	.3								2.4	4.3
SW	1.5	2.1	.3									4.0	4.0
WSW	4.3	5.2	2.4	.6								12.5	5.5
W	6.7	2.7	2.1	1.2								12.4	4.7
WNW	1.2											1.2	1.8
NW	.9											.9	2.0
NNW	.6		.6									1.2	4.5
VARBL			1.2									1.2	6.8
CALM												57.9	
	21.3	11.3	7.3	2.1								100.0	1.9

TOTAL NUMBER OF OBSERVATIONS 328

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

176265
STATION

BAD KREUZNACH DL
STATION NAME

77-82
YEARS

SLP
MONTH

ALL WEATHER
CLASS

900-1100
HOURS (L & T)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.6	.2									2.6	4.2
NNE	2.8	1.6	.2									4.6	3.2
NE	3.4	.2	.4									4.0	2.6
ENE	1.0	1.2	.2									2.4	3.6
E	3.0	1.0	.2									4.2	3.0
ESE	1.2		.6									1.8	3.8
SE	.8											.8	1.8
SSE	.2											.2	2.2
S	.6	.2	.4	.2								1.4	5.4
SSW	1.0	1.2	2.4	.2								4.8	6.2
SW	.8	2.8	1.8									5.5	5.7
WSW	2.0	4.2	4.6	.2	.2							11.3	6.1
W	2.4	3.0	3.8	1.6								10.9	6.8
WNW	1.0											1.0	2.4
NW	1.2	.2	.2									1.6	3.3
NNW	.4	1.0	.2	.4								2.0	6.4
VARBL		.2	2.0	1.0	.4							3.6	10.6
CALM												37.0	
	22.8	18.6	17.4	3.6	.6							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

495

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/PAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

14265
STATION

BAD KREUZNACH DL
STATION NAME

73-82
YEARS

SEE
NOTE

ALL WEATHER
CLASS

1700-1400
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.0	1.2									4.5	5.5
NNE	2.2	1.4	.4									4.1	3.2
NE	1.6	1.0	.6									3.3	4.1
ENE	2.7	.8	1.2									4.7	4.3
E	3.5	3.3	.6									7.4	3.7
ESE	2.9	2.5	.4									5.7	4.2
SE	.6	1.0	.6	.2								2.5	5.5
SSE	.8	.2	.2									1.2	3.2
S	1.4	.8	.4									2.7	3.8
SSW	1.6	2.9	1.4	.4								6.3	5.7
SW	.6	3.3	3.3	.8								8.0	7.1
WSW	.9	2.7	3.3	1.4		.2						6.8	7.9
W	2.5	3.5	3.7	1.8								11.5	6.9
WNW	1.2	1.8	1.4	.6								5.1	6.2
NW	1.2		.6									1.8	4.2
NNW	.2	.4	.4									1.0	5.6
VARBL		.2	4.7	1.8								6.7	9.7
CALM												15.1	
	25.2	27.9	24.5	7.2		.2						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

489

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

116265
STATION

CAD KREUZNACH DL
STATION NAME

73-82
YEARS

SEP
MONTH

ALL WEATHER
CLASS

1500-1700
HOURS (LST)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.4	2.4	.7								6.1	6.1
NNE	1.3	2.6	.9									4.8	4.6
NE	1.5	.7	1.1									3.3	4.7
ENE	1.9	.7	1.3									3.7	4.8
E	3.3	2.6	.7	.2								6.3	4.1
ESE	2.4	1.5	.4									4.4	3.7
SE	2.4	1.3	.9									4.0	4.2
SSE	1.3	.7	.2									2.2	3.6
S	.4	1.5	1.3									3.3	5.7
SSW	1.9	2.2	2.4									6.4	5.4
SW	1.5	4.2	2.6	.7								9.0	5.9
WSW	.7	3.5	5.5	1.1								10.7	7.4
W	.9	3.5	5.7	1.8								11.6	7.6
WNW	1.1	2.9	2.2	.2								6.4	6.0
NW	.2	.4	.9									1.5	6.9
NNW	.7	2.7	.2									2.9	4.8
VARBL			2.7	1.1								3.1	9.6
CALM												9.3	
	22.4	32.7	30.7	5.3								100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

456

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

176265 STATION 176265 BAD KREUNACH DL STATION NAME 77-82 YEARS 367 MONTHS 0600-0800 HOURS (L.S.T.)
ALL WEATHER CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	.8	.3									1.3	5.6
NNE	.3	.8										1.2	4.2
NE	.3	.3										.5	3.0
ENE	1.0	2.0	.3	.3								4.3	4.2
E	2.0	1.3										3.3	2.5
ESE	.3	.8		.3								1.3	5.2
SE	1.5											1.5	2.2
SSE	1.5	.3	.3									2.0	3.1
S	.5											.5	2.5
SSW	1.0	.8										1.8	3.3
SW	2.3	1.5	1.5	.3								5.6	4.9
WSW	2.8	6.4	3.3	.8								13.2	5.8
W	3.3	2.7	1.0									6.4	3.8
WNW	.3	.5	.3	.3								1.3	7.0
NW			.3									.3	10.0
NNW		.3										.3	4.0
VARBL			2.3	.8								3.1	10.0
CALM												52.4	
	18.1	17.6	9.4	2.5								100.0	2.3

TOTAL NUMBER OF OBSERVATIONS 393

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 16265 STATION NAME BAD KREUZNACH DL YEARS 73-82 COUNTRY CCY
CLASS ALL WEATHER HOURS (L E T) 0900-1100
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.8	.2									1.5	4.3
NNE	3.7	.7										4.4	2.4
NE	1.5	.5	.3									2.4	3.2
ENE	1.7	1.5	.8	.2								4.2	4.9
E	3.0	2.4	.8	.7								6.2	4.9
ESE	1.2	1.3	.2									2.7	3.9
SE	.5	.7										1.2	3.4
SSE	.7		.2									.8	3.4
S	.8	.8										1.7	3.8
SSW	.5	1.3	.5									2.4	5.1
SW	.3	2.4	1.5	.7								4.9	6.8
WSW	1.5	5.9	3.4	.7								11.4	6.1
W	2.7	1.9	3.2	.8								8.6	6.3
WNW	.3	.8	.2									1.3	4.3
NW	.2	.2	.5									.8	6.4
NNW	.3	.7	.5									1.5	5.0
VARBL			2.7	2.4	.5							4.9	11.6
CALM												38.4	
	19.5	21.9	14.3	5.4	.5							100.0	3.5

TOTAL NUMBER OF OBSERVATIONS 594

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1626° STATION BAD KREUZNACH DL 73-82 YEARS 0.7 MONTHS
1000-1400 HOURS (L & T.)
ALL WEATHERED CLASS
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.5	.7									2.7	5.9
NNE	1.2	1.2	.2									2.5	3.6
NE	2.7	.5										3.2	1.9
ENE	3.2	1.9	1.2	.3								6.6	4.6
E	3.6	3.9	2.4	.7								10.6	5.3
ESE	2.9	1.7	.7									5.3	3.8
SE	.9	.9										1.7	3.3
SSE	1.2	.7										1.7	2.8
S	.7	.7	.3	.2								1.9	5.7
SSW	.3	.4	.7									1.7	6.0
SW	1.5	3.1	2.2	.3								7.2	5.9
WSW	2.2	3.9	4.1	1.9	.2							12.3	6.9
W	1.4	2.9	3.2	2.0								9.5	7.5
WNW	.5	1.0	.3	.3	.2							2.4	6.8
NW		.5	1.4									1.9	6.9
NNW	.2	.3	.7	.5								1.7	7.8
VARBL			3.1	2.2	.2	.3						5.8	11.5
CALM												1.3	
	22.8	25.4	21.1	8.5	.5	.3						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 587

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

14265 BAD KREUNACH DL 73-82 OCT
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
CONDITION
1500-1700
HOURS (LST)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.9	1.2									3.4	4.9
NNE	1.8	.7	.2									2.7	3.0
NE	1.6	1.4	.5									3.7	4.2
ENE	3.4	2.1	1.2	.2								6.9	4.4
E	3.5	3.7	2.2	.4								9.6	4.8
ESE	1.8	2.7										3.7	3.5
SE	1.8	.9										2.7	3.2
SSE	.7	.2	.2									1.1	3.5
S	.9	.5										1.4	3.5
SSW	.9	3.7	.9									4.8	4.9
SW	.9	3.5	2.2									6.4	5.7
WSW	2.1	3.7	3.9	.7	.2							10.6	6.3
W	1.1	3.7	3.2	1.8								9.8	7.3
WNW	.5	.9	.7	.2								2.3	6.4
NW		.7	.2									.9	6.2
NNW	.4	.2	.9									1.4	6.3
VARBL		.2	3.4	2.7	.2							6.4	10.4
CALM												2.3	
	22.7	28.4	20.4	5.9	.4							100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 564

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 1-6265 BAD KREU, NACH, DL STATION NAME 73-82 YEARS NGV
CLASS ALL WEATHER HOURS (L S T.) 0600-0800
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.2	.5									1.2	5.0
NNE	.5											.5	1.5
NE	.8	.5	.3									1.6	4.2
ENE	.8	.5	.8	.3								2.5	6.6
E	2.2	.3										2.5	2.1
ESE	.3	.5										.8	3.7
SE	1.6	.3										1.9	2.1
SSE													
S	.5	.3										.8	2.3
SSW	1.4	1.6	.3									3.3	4.1
SW	1.9	2.5	3.3	1.6	.7							9.5	7.4
WSW	3.3	7.6	7.6	1.9								20.4	6.8
W	4.1	2.7	3.7	1.9		.7						12.0	6.6
WNW	.8		.3									1.1	3.5
NW												.5	2.2
NNW												.3	1.0
VARBL			1.1	.3								1.4	9.2
CALM												79.0	
	19.6	17.7	17.2	6.0	.3	.3						100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 367

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 6265 BAD KREUNACH DL 77-82 NOV
STATION STATION NAME YEARS
ALL WEATHER 1900-1970
CLASS HOURS (L & T)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.7	.7									1.8	5.7
NNE	1.3	.5	.7									2.5	4.6
NE	.9	.7	.7									2.4	5.4
ENE	.9	.9	.9	.2								3.9	5.6
E	1.0	.7		.2								2.5	3.9
ESE	.9	.2										1.1	2.3
SE	1.1	.2										1.3	2.6
SSE			.2									.2	7.3
S	1.3	.4										1.6	2.6
SSW	1.3	.5	.4									2.2	3.6
SW	1.6	4.2	2.5	1.1	.2							9.6	6.6
WSW	3.3	4.9	7.8	4.2	.5	.4						21.1	6.2
W	2.5	4.2	4.7	2.7								14.2	7.3
WNW	.5	.9	.5	.2								2.2	5.3
NW	.5		.4									.9	5.2
NNW	.2	.2		.2								.3	7.3
VARBL			1.6	2.7								3.6	10.7
CALM												79.4	
	18.3	19.2	21.2	12.7	.7	.4						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS 551

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AID WATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

116265 BAD KREUNACH DL 77-82 YEARS NOV 1977
STATION STATION NAME CLAS 1220-1400
HOURS (LST)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N	.7	2.2	.4									2.3
NNE	.9	1.1	.9									2.4
NE	.9	.9	.4	.7								2.4
ENE	1.1	.5	.7	.9								2.3
E	2.7	2.4	.4	.5								2.3
ESE	1.1	.5	.7									2.3
SE	.5	.4										2.2
SSE	.5											2.2
S	.4	.5	.4									2.2
SSW	.4	.5	.7	.2								2.2
SW	1.1	4.6	3.1	1.1	.4							2.2
WSW	.9	3.3	5.5	6.3	.7							2.2
W	2.2	3.3	5.1	6.4	.4							2.2
WNW	.9	1.1	1.5	.7								2.2
NW	.4	.5	.5									2.2
NNW	.4	.4	.4	.2								2.2
VARBL			4.2	2.7		.7						2.2
CALM												2.2
	14.4	22.2	24.2	18.2	1.5	.2						2.2

TOTAL NUMBER OF OBSERVATIONS 599

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 21066 BAD KOEULNACH DE STATION NAME 77-61 YEARS 1962-1966 NORTH
CLASS ALL WEATHER
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.2	.6	.8									2.2	4.6
NNE	1.0	1.0	.6									2.2	4.1
NE	.8	.9	.4									2.2	5.6
ENE	1.3	1.2	.6	.6								4.2	5.1
E	3.2	1.6	.4									5.2	3.7
ESE	1.5	.6	.2									2.4	2.9
SE	.4	.6	.2									1.2	4.8
SSE	.2		.2									1.0	7.3
S	1.4	.2										1.6	3.1
SSW	1.0	1.2	.9	.2								3.2	5.1
SW	.8	3.3	3.6	1.6	1.2							10.4	8.6
WSW	2.4	5.6	6.2	3.6	.4							15.1	7.7
W	1.0	3.2	6.4	4.2	.4							15.1	9.0
WNW	.8	1.0	.2	.2								2.2	5.0
NW	.6	.6										1.4	4.3
NNW	.4	.6	.2	.2								1.4	6.4
VARBL			3.6	1.6	.2							5.0	10.6
CALM												19.3	
	19.1	22.7	24.3	12.5	2.0	.2						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 503

CLIMATE CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1. YEAR 1965 STATION NAME LAC HENRIENACH DL YEARS 7-6

STATION ALL WEATHER CLASS ALL WEATHER MONTH ALL MONTHS

CONDITION ALL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.3	.7	.7								1.8	2.1
NNE	.3	.8	.5									1.6	1.8
NE	.2	1.7	.9									2.8	2.7
ENE	1.3	1.3	.9									3.5	2.8
E	3.1	2.3	.3	.7								6.4	3.2
ESE	.3	.5										0.8	4.8
SE		.7										0.7	5.0
SSE	.3	.3										0.6	4.1
S	.5	.8										1.3	3.5
SSW	1.1	.5	.5									2.1	4.4
SW	1.5	3.4	1.6	.5								7.0	4.4
WSW	4.2	2.3	6.7	4.2	.3							18.7	7.7
W	1.3	3.7	4.2	2.6	.3							12.3	7.9
WNW	.9	.5	.3									1.6	4.7
NW		.7										0.7	4.0
NNW	.5	.3	.5									1.3	4.3
VARBL			3.0	1.6	1.5							6.1	11.4
CALM												2.1	
	18.7	19.3	19.3	9.7	1.6							12.2	4.4

TOTAL NUMBER OF OBSERVATIONS 397

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 14205 STATION NAME HEAD KPEJUNACH DL YEARS 77-81 MONTH DEC

CLASS ALL WEATHER HOURS 900-1100

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.3	.2									1.2	3.7
NNE	1.6	.5										2.1	2.4
NE	.7	1.5	1.0									3.2	2.2
ENE	2.2	1.2	.9	.3								4.6	4.8
E	2.5	3.4	.7									5.7	3.7
ESE	.3	.7										1.0	3.1
SE	.7	.7	.2									.2	4.4
SSE	.3											.3	1.5
S	.5		.3									.2	5.2
SSW	1.5	1.7	.5									3.4	4.2
SW	1.3	3.5	2.5	.5								7.8	6.2
WSW	2.7	3.7	5.9	5.6	.7	.7						19.4	8.8
W	2.3	3.5	3.2	1.7	.5							11.1	7.3
WNW		.7	.5									1.2	6.4
NW	.3	.3	.3	.2								1.2	7.1
NNW	.2	.3	.3									.5	5.2
VARBL			2.7	4.7	.2							6.9	11.4
CALM												77.6	
	18.3	21.5	19.7	12.3	.8	.3						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 594

UNITED STATES CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1-2265 STATION 6AD KRECHNACH DL 7-82 YEARS MONTH D-C
STATION NAME
ALL WEATHER CLASS 1200-1400 HOURS (LST)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	.7	.2	.2								2.2	5.1
NNE	1.3	.9										2.7	2.9
NE	1.5	.9	.2									2.7	3.1
ENE	1.4	1.6	1.6	1.1								5.6	6.5
E	3.9	2.4	2.9	.4								8.5	5.5
ESE	.5	.4	.5									1.4	4.9
SE	.4	.7										1.1	3.3
SSE	.7											.7	1.8
S	.4	.3	.2									1.1	4.0
SSW	1.3	.9	.5	.2								2.9	5.3
SW	.7	4.2	1.8	.7	.7							7.4	6.7
WSW	2.2	5.4	7.2	6.9		.5						22.2	6.8
W	1.1	2.3	4.2	2.5	.7	.2						10.7	9.2
WNW	.2	.9	.5									1.6	6.1
NW	.4	.7	.4	.2								1.6	6.4
NNW	.4	.4	.4									1.1	5.5
VARBL		.2	1.8	4.9	1.1							8.0	12.8
CALM												18.3	
	17.1	22.6	22.4	17.0	2.0	.7						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 553

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

106265 RAV KRENNACH DL 73-82 DEC
STATION STATION NAME YEARS MONTH
ALL WEATHER
CLASS
500-1700
HOURS (L & T)
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	1.2	1.2										2.2	3.5
NNE	.8	1.2	.4									2.2	4.8
NE	1.2	.2	.4									1.2	3.8
ENE	2.8	2.4	1.4	.2								6.9	4.8
E	2.6	4.2	.6	.2								7.5	4.6
ESE	.6	.4										1.0	3.2
SE	1.2	.4										1.4	3.0
SSE	.8	.2										1.0	2.4
S	1.2	.5										1.8	3.1
SSW	1.8	1.2	1.6									4.6	5.1
SW	1.2	3.6	3.2	.4	.2							6.3	6.5
WSW	.8	4.8	6.7	9.1	.2							20.6	9.3
W	.6	3.2	2.6	2.4	1.2	.2						10.1	9.7
WNW	.6	.8	1.2	.8								3.4	7.7
NW	.4	1.2	.2									1.6	3.3
NNW	.2	.4	.2	.2								1.0	6.8
VARBL			3.2	2.0	.2							5.3	11.1
CALM												19.4	
	17.4	25.5	21.4	14.3	1.8	.2						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 495

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968. For most Airways stations, visibilities of greater than 7 miles were not reported for part of the period of record. Therefore, the ≥ 10 mi visibility category should be used with great caution.

Continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	≥ 0
NO CEILING																
≥ 1800																
≥ 1500					91.0											92.6
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500										97.4						98.1
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0 .
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0 . From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of ≥ 1500 feet with ≥ 3 miles, subtracted from 97.4 read from the table at the intersection of ≥ 500 feet with ≥ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling ≥ 500 feet with visibility ≥ 1 mile, but < 3 miles; or ceiling ≥ 500 feet, but < 1500 feet with visibility ≥ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265

SAD KREUNACH DL

74-83

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

5600-9800

VISIBILITY FEET	OR (HUNDREDS OF METERS)																		
	210	200	250	240	230	220	210	200	150	140	130	120	110	100	90	80	70	60	50
1000	6.7	8.6	10.1	13.1	13.5	13.5	15.3	15.8	15.8	16.5	16.5	17.0	17.2	17.7	18.0	18.0	18.0	18.0	18.0
900	7.1	9.4	11.3	14.3	14.8	14.8	16.7	17.5	17.5	18.2	18.2	18.7	19.2	19.5	19.7	19.7	19.7	19.7	19.7
800	7.1	9.4	11.3	14.3	14.8	14.8	16.7	18.0	18.0	18.7	18.7	19.2	19.5	20.0	20.2	20.2	20.2	20.2	20.2
700	7.1	9.4	11.3	14.3	14.8	14.8	16.7	18.0	18.0	18.7	18.7	19.2	19.5	20.0	20.2	20.2	20.2	20.2	20.2
600	7.1	9.4	11.3	14.3	14.8	14.8	16.7	18.0	18.0	18.7	18.7	19.2	19.5	20.0	20.2	20.2	20.2	20.2	20.2
500	7.1	9.4	11.3	14.3	14.8	14.8	16.7	18.0	18.0	18.7	18.7	19.2	19.5	20.0	20.2	20.2	20.2	20.2	20.2
400	7.1	9.4	11.3	14.3	14.8	14.8	16.7	18.0	18.0	18.7	18.7	19.2	19.5	20.0	20.2	20.2	20.2	20.2	20.2
300	7.1	9.4	11.3	14.3	14.8	14.8	16.7	18.0	18.0	18.7	18.7	19.2	19.5	20.0	20.2	20.2	20.2	20.2	20.2
200	7.1	9.4	11.3	14.3	14.8	14.8	16.7	18.0	18.0	18.7	18.7	19.2	19.5	20.0	20.2	20.2	20.2	20.2	20.2
100	7.1	9.4	11.3	14.3	14.8	14.8	16.7	18.0	18.0	18.7	18.7	19.2	19.5	20.0	20.2	20.2	20.2	20.2	20.2
900	9.1	11.3	13.5	17.7	18.2	18.2	20.2	22.2	22.2	23.4	23.6	24.1	24.6	25.1	25.4	25.4	25.4	25.4	25.4
800	9.6	11.8	14.0	19.0	19.7	19.7	21.7	23.9	23.9	25.1	25.1	25.4	25.9	26.4	26.8	27.1	27.1	27.1	27.1
700	9.9	12.1	14.3	19.2	20.0	20.0	21.9	24.1	24.1	25.4	25.6	26.1	26.6	27.1	27.3	27.3	27.3	27.3	27.3
600	9.9	12.1	14.3	19.7	20.4	20.4	22.4	24.6	24.6	25.9	26.1	26.6	27.1	27.6	27.8	27.8	27.8	27.8	27.8
500	10.8	13.3	15.5	21.4	22.2	22.2	24.1	26.4	26.4	27.6	27.8	28.3	28.8	29.3	29.6	29.6	29.6	29.6	29.6
400	12.8	16.5	19.2	25.1	25.9	25.9	28.1	30.3	30.3	32.3	32.5	33.0	33.5	34.0	34.2	34.2	34.2	34.2	34.2
300	16.0	20.2	23.4	30.0	30.8	30.8	33.3	35.5	35.5	37.4	37.7	38.2	38.7	39.2	39.4	39.4	39.4	39.4	39.4
200	20.9	25.6	29.6	37.4	38.7	38.7	41.4	43.6	43.6	45.8	46.1	46.6	47.0	47.5	47.8	47.8	47.8	47.8	47.8
100	22.7	28.3	33.0	43.8	46.8	46.8	51.7	53.9	53.9	56.2	56.4	56.9	57.4	57.9	58.1	58.1	58.1	58.1	58.1
900	26.6	33.3	38.2	51.5	55.9	55.9	64.5	67.5	67.5	70.7	71.2	71.7	72.4	72.9	73.2	73.2	73.2	73.2	73.2
800	27.6	34.2	39.2	52.7	57.6	57.6	66.5	69.5	69.5	72.7	73.2	73.6	74.4	74.9	75.1	75.1	75.1	75.1	75.1
700	30.5	39.7	45.1	60.8	67.0	67.0	76.8	79.8	79.8	83.0	83.5	84.0	84.7	85.2	85.5	85.5	85.5	85.5	85.5
600	30.6	40.6	46.3	62.1	68.2	68.2	78.6	82.3	82.3	85.7	86.2	86.7	87.4	87.9	88.2	88.2	88.2	88.2	88.2
500	31.3	41.1	46.8	63.1	69.2	69.2	79.8	83.7	83.7	87.7	88.2	88.7	89.4	89.9	90.1	90.1	90.1	90.1	90.1
400	31.5	41.6	47.3	63.5	69.7	69.7	80.3	84.2	84.2	88.2	88.7	89.2	89.9	90.4	90.6	90.6	90.6	90.6	90.6
300	31.5	41.6	47.5	64.3	70.4	70.4	81.5	85.5	85.5	89.4	89.9	90.4	91.1	91.6	91.9	91.9	91.9	91.9	91.9
200	31.5	41.6	47.8	64.5	70.7	70.7	81.8	86.2	86.2	90.4	91.1	91.6	92.4	92.9	93.1	93.1	93.1	93.1	93.1
100	31.5	41.6	47.8	64.5	70.7	70.7	81.8	86.5	86.5	90.9	91.9	92.4	93.1	93.6	93.8	93.8	93.8	93.8	93.8
900	31.5	41.6	47.8	64.5	70.7	70.7	81.8	86.7	86.7	91.1	92.1	92.6	93.3	94.1	94.6	94.8	94.8	94.8	94.8
800	31.5	41.6	47.8	64.5	70.7	70.7	81.8	86.9	86.9	91.6	92.9	93.3	94.1	94.8	95.3	95.6	95.6	95.6	95.6
700	31.5	41.6	47.8	64.5	70.7	70.7	81.8	87.2	87.2	92.4	93.6	94.1	95.6	96.8	97.3	97.5	97.5	97.5	97.5
600	31.5	41.6	47.8	64.5	70.7	70.7	81.8	87.2	87.2	92.4	93.6	94.1	95.6	97.5	98.0	98.5	98.5	98.5	98.5
500	31.5	41.6	47.8	64.5	70.7	70.7	81.8	87.2	87.2	92.4	93.6	94.1	95.6	97.5	98.0	98.5	98.5	98.5	98.5
400	31.5	41.6	47.8	64.5	70.7	70.7	81.8	87.2	87.2	92.4	93.6	94.1	95.6	97.5	98.0	98.5	98.5	98.5	98.5
300	31.5	41.6	47.8	64.5	70.7	70.7	81.8	87.2	87.2	92.4	93.6	94.1	95.6	97.5	98.0	98.5	98.5	98.5	98.5
200	31.5	41.6	47.8	64.5	70.7	70.7	81.8	87.2	87.2	92.4	93.6	94.1	95.6	97.5	98.0	98.5	98.5	98.5	98.5
100	31.5	41.6	47.8	64.5	70.7	70.7	81.8	87.2	87.2	92.4	93.6	94.1	95.6	97.5	98.0	98.5	98.5	98.5	98.5

TOTAL NUMBER OF OBSERVATIONS 806

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICES/MAC

CEILING VERSUS VISIBILITY

16265

BAO AREFUNACH DI

74-63

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1990-1999

		VISIBILITY, STATUTE MILES OR (HUNDREDS OF METERS)															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1000	7.8	8.5	9.4	11.2	12.0	12.0	13.0	13.8	13.8	14.3	14.3	14.8	15.0	15.3	15.4	15.4
2	900	9.6	11.1	12.0	14.0	15.0	15.1	16.9	18.2	18.2	18.7	18.7	19.2	19.3	19.7	20.0	20.0
3	800	9.6	11.1	12.0	14.0	15.0	15.1	16.9	18.2	18.2	18.7	18.7	19.2	19.3	19.7	20.0	20.0
4	700	9.8	11.2	12.2	14.1	15.1	15.3	17.1	18.4	18.4	18.9	18.9	19.3	19.5	19.8	20.2	20.2
5	600	10.1	11.7	12.7	14.6	15.8	15.9	17.7	19.0	19.2	19.5	19.5	20.0	20.2	20.5	20.8	20.8
6	500	10.7	12.7	13.7	15.8	16.9	17.1	18.9	20.2	20.2	20.8	20.8	21.3	22.0	22.4	22.9	22.8
7	400	11.1	13.2	14.3	16.9	18.2	18.4	20.2	21.5	21.5	22.1	22.1	22.6	23.3	23.7	24.1	24.1
8	300	12.4	14.6	15.8	18.5	19.8	20.2	22.3	23.7	23.9	25.2	25.2	25.7	26.3	26.8	27.2	27.2
9	200	13.5	15.8	17.1	19.8	21.8	22.1	24.2	25.7	25.9	27.2	27.2	27.6	28.3	28.8	29.1	29.1
10	100	13.5	15.8	17.1	19.8	21.8	22.1	24.2	25.7	25.9	27.2	27.2	27.6	28.3	28.8	29.1	29.1
11	50	14.3	16.6	17.9	20.7	22.8	23.1	25.5	27.2	27.3	28.6	28.6	29.1	29.8	30.2	30.6	30.6
12	4000	15.6	18.5	20.0	22.8	24.9	25.2	27.6	29.3	29.4	30.7	30.7	31.2	31.9	32.4	32.7	32.7
13	3000	16.7	21.8	23.6	26.7	28.8	29.1	31.9	33.7	34.0	35.4	35.4	35.9	36.6	37.1	37.4	37.4
14	2000	19.8	25.0	27.6	31.1	33.3	33.7	36.4	38.2	38.5	40.0	40.0	40.5	41.1	41.6	42.0	42.0
15	1000	23.9	29.8	32.8	38.9	42.0	42.3	45.0	47.0	47.3	49.1	49.1	49.6	50.2	50.7	51.1	51.1
16	500	28.1	34.8	38.7	46.2	50.2	50.7	55.0	57.4	57.7	59.7	59.7	60.2	60.8	61.3	61.6	61.6
17	400	31.4	38.5	42.8	52.0	57.4	58.5	64.2	66.8	67.2	69.6	69.6	70.1	70.7	71.4	71.7	71.7
18	300	33.5	40.8	45.5	55.4	60.8	62.0	67.8	70.9	71.4	73.7	73.7	74.1	74.8	75.4	75.8	75.8
19	200	36.6	45.0	50.4	61.5	67.2	68.5	74.8	77.9	79.4	80.7	80.8	81.3	82.0	82.9	83.3	83.4
20	100	37.6	46.2	51.5	62.8	68.5	69.8	76.4	80.0	80.5	82.9	83.1	83.6	84.2	85.2	85.5	85.7
21	50	37.6	46.2	51.7	62.9	68.9	70.2	77.1	81.1	82.1	84.9	85.0	85.5	86.3	87.8	88.1	88.3
22	4000	37.6	46.2	51.7	63.1	69.1	70.4	77.2	81.3	82.3	85.0	85.4	85.9	86.8	88.3	88.6	88.8
23	3000	37.6	46.2	51.9	63.7	69.8	71.1	77.9	82.1	83.1	86.5	86.8	87.5	88.6	90.1	90.4	90.6
24	2000	37.6	46.2	51.9	63.7	69.9	71.2	78.0	82.3	83.4	87.0	87.3	88.0	89.3	90.7	91.1	91.2
25	1000	37.6	46.2	51.9	63.7	69.9	71.2	78.0	82.6	83.7	87.3	87.6	88.5	90.2	91.7	92.0	92.4
26	500	37.6	46.2	51.9	63.7	69.9	71.2	78.0	82.9	84.2	88.5	88.9	89.8	91.5	93.2	93.5	94.1
27	400	37.6	46.2	51.9	63.7	69.9	71.2	78.0	83.1	84.4	88.6	89.3	90.2	92.4	95.0	95.8	97.1
28	300	37.6	46.2	51.9	63.7	69.9	71.2	78.0	83.1	84.4	88.6	89.3	90.2	92.4	95.3	96.6	98.7
29	200	37.6	46.2	51.9	63.7	69.9	71.2	78.0	83.1	84.4	88.6	89.3	90.2	92.4	95.3	96.6	100.0
30	100	37.6	46.2	51.9	63.7	69.9	71.2	78.0	83.1	84.4	88.6	89.3	90.2	92.4	95.3	96.6	100.0

TOTAL NUMBER OF OBSERVATIONS 615

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265

BAD KREUNACH DL

74-83

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

		VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1000	8.1	9.3	9.6	12.2	13.7	14.0	15.4	16.0	16.7	17.5	17.7	17.9	17.9	17.9	17.9	17.9
2	800	12.6	14.5	15.4	18.3	20.2	21.0	22.5	23.8	23.8	25.5	25.6	25.8	25.8	25.8	25.8	25.8
3	600	12.6	14.5	15.4	18.3	20.2	21.0	22.5	23.8	23.8	25.5	25.6	25.8	25.8	25.8	25.8	25.8
4	400	12.7	14.7	15.5	18.5	20.3	21.2	22.6	24.0	24.0	25.6	25.8	26.0	26.0	26.0	26.0	26.0
5	200	13.1	15.0	15.9	18.8	20.7	21.5	23.0	24.3	24.3	26.0	26.1	26.3	26.3	26.3	26.3	26.3
6	100	13.7	15.9	17.0	20.2	22.1	23.0	24.6	26.0	26.0	27.6	27.8	27.9	27.9	27.9	27.9	27.9
7	50	15.0	17.5	18.8	22.3	24.3	25.1	26.8	28.1	28.1	29.8	29.9	30.1	30.1	30.4	30.4	30.4
8	25	15.7	18.5	19.8	24.0	26.0	26.8	28.4	29.8	29.8	31.4	31.6	31.7	31.7	32.1	32.1	32.1
9	10	17.0	20.5	22.0	26.3	29.1	29.9	31.8	33.2	33.2	35.0	35.2	35.4	35.4	35.7	35.7	35.7
10	5	18.5	22.3	24.3	28.6	32.2	33.1	34.7	36.4	36.4	38.2	38.3	38.5	38.5	38.8	38.8	38.8
11	2	18.5	22.3	24.3	28.6	32.2	33.1	34.7	36.4	36.4	38.2	38.3	38.5	38.5	38.8	38.8	38.8
12	1	20.3	24.1	26.3	30.6	34.2	35.0	36.7	38.5	38.5	40.3	40.5	40.7	40.7	41.0	41.0	41.0
13	0.5	20.5	24.6	26.8	31.1	34.9	35.7	37.5	39.3	39.3	41.2	41.3	41.5	41.5	41.8	41.8	41.8
14	0.2	23.0	27.1	29.6	34.4	38.3	39.2	41.5	43.6	43.6	45.5	45.6	45.8	45.8	46.1	46.1	46.1
15	0.1	25.3	29.8	32.6	37.4	41.3	42.1	44.5	46.6	46.6	48.4	48.6	48.8	48.8	49.1	49.1	49.1
16	0.05	32.9	39.5	42.3	50.4	54.5	55.7	58.2	60.8	60.8	62.6	62.8	63.0	63.0	63.3	63.3	63.3
17	0.02	36.5	44.1	48.3	56.7	61.8	63.1	66.1	68.9	69.1	71.1	71.2	71.4	71.4	71.7	71.7	71.7
18	0.01	39.5	47.6	51.9	61.8	67.1	68.9	72.9	75.9	76.0	78.0	78.2	78.3	78.3	78.7	78.7	78.7
19	0.005	40.7	49.6	54.4	64.3	69.6	71.4	75.9	79.0	79.2	81.7	81.8	82.0	82.0	82.3	82.3	82.3
20	0.002	42.5	52.1	57.5	68.3	73.7	75.9	80.7	84.1	84.5	86.9	87.1	87.3	87.3	88.1	88.1	88.1
21	0.001	42.8	52.4	58.0	69.1	74.9	77.0	81.8	85.3	85.6	88.1	88.3	88.4	88.4	89.4	89.4	89.4
22	0.0005	43.0	52.6	58.5	69.8	75.9	78.0	82.8	86.4	87.3	90.2	90.4	90.6	91.1	92.2	92.2	92.2
23	0.0002	43.0	52.6	58.7	70.4	76.5	78.7	83.5	87.1	87.9	91.1	91.2	91.4	91.9	93.1	93.1	93.1
24	0.0001	43.0	52.6	58.7	70.4	76.7	78.8	83.6	87.3	88.3	91.6	91.7	91.9	92.4	93.6	93.6	93.6
25	0.00005	43.0	52.6	58.7	70.4	76.7	78.8	83.6	87.3	88.3	91.9	92.1	92.2	92.7	93.9	93.9	93.9
26	0.00002	43.0	52.6	58.7	70.4	76.7	78.8	83.6	87.3	88.3	92.1	92.2	92.4	92.9	94.4	94.4	94.4
27	0.00001	43.0	52.6	58.7	70.6	76.9	79.0	84.0	88.6	89.8	93.9	94.2	94.4	94.9	96.4	96.4	96.5
28	0.000005	43.0	52.6	58.7	70.6	76.9	79.0	84.0	88.6	89.8	93.9	94.4	94.5	95.2	97.4	97.5	97.7
29	0.000002	43.0	52.7	58.8	70.7	77.0	79.2	84.1	88.8	89.9	94.0	94.5	94.7	95.7	98.3	98.5	98.8
30	0.000001	43.0	52.7	58.8	70.7	77.0	79.2	84.1	88.8	89.9	94.0	94.5	94.7	95.7	98.5	98.7	99.3
31	0.0000005	43.0	52.7	58.8	70.7	77.0	79.2	84.1	88.8	89.9	94.0	94.5	94.7	95.7	98.5	98.7	99.8
32	0.0000002	43.0	52.7	58.8	70.7	77.0	79.2	84.1	88.8	89.9	94.0	94.5	94.7	95.7	98.5	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 605

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

156265 BAD KREUZNACH DL

74-83

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1500-1700

		OR (HUNDREDS OF METERS)																			
		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115
CEILING	VISIBILITY	GT90	90	80	70	60	50	40	30	20	10	5	2	1	0.5	0.25	0.1	0.05	0.025	0.01	0.005
		9.1	10.2	11.0	14.2	15.6	15.6	17.8	19.7	19.7	19.6	19.6	19.8	19.8	20.5	20.5	20.9	20.9	20.9	20.9	20.9
2	8000	13.4	15.4	16.2	21.0	23.4	23.4	26.1	27.6	27.6	28.3	28.3	28.4	28.4	29.1	29.1	29.6	29.6	29.6	29.6	29.6
2	6000	13.4	15.7	17.3	21.3	23.7	23.7	26.4	27.9	27.9	28.6	28.6	28.8	28.8	29.4	29.4	29.9	29.9	29.9	29.9	29.9
2	4000	13.4	15.7	17.3	21.3	23.7	23.7	26.4	27.9	27.9	28.6	28.6	28.8	28.8	29.4	29.4	29.9	29.9	29.9	29.9	29.9
2	2000	14.4	16.9	19.7	23.0	25.4	25.4	28.1	29.6	29.6	30.3	30.3	30.5	30.5	31.1	31.1	31.6	31.6	31.6	31.6	31.6
2	1000	15.9	18.6	20.6	24.7	27.1	27.1	29.8	31.3	31.3	32.0	32.0	32.1	32.1	32.6	32.6	33.3	33.3	33.3	33.3	33.3
2	500	16.6	19.3	21.3	25.9	28.3	28.3	31.0	32.5	32.5	33.2	33.2	33.3	33.3	34.0	34.0	34.5	34.5	34.5	34.5	34.5
2	250	19.3	23.0	25.2	30.3	32.7	32.7	35.9	37.6	37.6	38.2	38.2	38.4	38.4	39.1	39.1	39.6	39.6	39.6	39.6	39.6
2	100	20.0	23.9	26.7	32.1	34.9	34.9	38.1	39.8	39.8	40.4	40.4	40.6	40.6	41.3	41.3	41.8	41.8	41.8	41.8	41.8
2	50	20.0	23.9	26.7	32.1	34.9	34.9	38.1	39.8	39.8	40.4	40.4	40.6	40.6	41.3	41.3	41.8	41.8	41.8	41.8	41.8
2	25	21.2	25.4	28.8	34.5	37.2	37.2	40.9	42.5	42.5	43.1	43.1	43.3	43.3	44.0	44.0	44.5	44.5	44.5	44.5	44.5
2	10	21.5	26.2	29.9	35.7	38.4	38.4	42.0	43.7	43.7	44.3	44.3	44.5	44.5	45.2	45.2	45.7	45.7	45.7	45.7	45.7
2	5	23.7	28.9	32.7	39.4	42.3	42.3	46.7	48.9	48.9	49.6	49.6	49.7	49.7	50.4	50.4	50.9	50.9	50.9	50.9	50.9
2	2	25.7	32.0	35.7	43.3	46.2	46.2	50.8	53.1	53.1	53.8	53.8	54.0	54.0	54.7	54.7	55.2	55.2	55.2	55.2	55.2
2	1	32.0	41.1	46.0	55.7	58.7	58.7	64.8	67.3	67.3	68.2	68.2	68.4	68.4	69.0	69.0	69.5	69.5	69.5	69.5	69.5
2	0.5	35.5	46.4	51.3	62.3	65.8	65.8	72.1	75.0	75.0	76.1	76.1	76.3	76.3	77.0	77.0	77.5	77.5	77.5	77.5	77.5
2	0.25	38.4	50.1	55.3	66.7	70.4	70.4	78.8	81.9	81.9	83.2	83.2	83.4	83.4	84.1	84.1	84.6	84.6	84.6	84.6	84.6
2	0.1	39.3	50.9	56.3	67.9	72.1	72.1	80.7	83.8	83.8	85.1	85.1	85.3	85.3	86.0	86.0	86.5	86.5	86.5	86.5	86.5
2	0.05	41.1	53.3	59.6	71.9	76.5	76.5	85.4	88.5	88.5	89.8	89.8	90.0	90.0	90.9	90.9	91.4	91.4	91.4	91.4	91.4
2	0.025	41.6	53.8	60.2	72.9	77.5	77.5	86.6	89.7	89.7	91.4	91.4	91.5	91.5	92.6	92.6	93.1	93.1	93.1	93.1	93.1
2	0.01	42.6	55.2	61.6	74.5	79.2	79.2	88.3	91.4	91.4	92.0	92.0	92.4	92.4	93.9	93.9	94.4	94.4	94.4	94.4	94.4
2	0.005	42.6	55.2	61.6	74.6	79.4	79.4	88.9	91.7	91.7	92.0	92.0	92.4	92.4	93.9	93.9	94.4	94.4	94.4	94.4	94.4
2	0.0025	42.6	55.2	61.6	74.6	79.4	79.4	88.9	91.7	91.7	92.0	92.0	92.4	92.4	93.9	93.9	94.4	94.4	94.4	94.4	94.4
2	0.001	42.6	55.2	61.6	74.6	79.4	79.4	88.9	91.7	91.7	92.0	92.0	92.4	92.4	93.9	93.9	94.4	94.4	94.4	94.4	94.4
2	0.0005	42.6	55.2	61.6	74.6	79.4	79.4	88.9	91.7	91.7	92.0	92.0	92.4	92.4	93.9	93.9	94.4	94.4	94.4	94.4	94.4
2	0.00025	42.6	55.2	61.6	74.6	79.4	79.4	88.9	91.7	91.7	92.0	92.0	92.4	92.4	93.9	93.9	94.4	94.4	94.4	94.4	94.4
2	0.0001	42.6	55.2	61.6	74.6	79.4	79.4	88.9	91.7	91.7	92.0	92.0	92.4	92.4	93.9	93.9	94.4	94.4	94.4	94.4	94.4
2	0.00005	42.6	55.2	61.6	74.6	79.4	79.4	88.9	91.7	91.7	92.0	92.0	92.4	92.4	93.9	93.9	94.4	94.4	94.4	94.4	94.4
2	0.000025	42.6	55.2	61.6	74.6	79.4	79.4	88.9	91.7	91.7	92.0	92.0	92.4	92.4	93.9	93.9	94.4	94.4	94.4	94.4	94.4
2	0.00001	42.6	55.2	61.6	74.6	79.4	79.4	88.9	91.7	91.7	92.0	92.0	92.4	92.4	93.9	93.9	94.4	94.4	94.4	94.4	94.4

TOTAL NUMBER OF OBSERVATIONS 591

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265 BAD KREUZNACH DL

74-87

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0630-0800

CEILING FEET	VISIBILITY STATUTE MILES																OR (HUNDREDS OF METERS)													
	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
1000	7.1	9.5	13.5	18.8	21.4	21.7	24.1	25.9	25.9	27.2	27.2	27.8	27.8	27.8	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
900	7.9	10.3	14.3	19.6	22.2	22.5	25.1	27.0	27.0	28.6	28.6	29.1	29.1	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
800	7.9	10.8	14.8	20.1	22.8	23.0	25.7	27.5	27.5	29.1	29.1	29.6	29.6	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
700	7.9	10.8	14.8	20.1	22.8	23.0	25.7	27.5	27.5	29.1	29.1	29.6	29.6	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
600	8.7	11.0	15.6	20.9	23.5	23.8	26.7	28.8	28.8	30.7	30.7	31.2	31.2	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
500	9.7	11.6	15.6	21.4	24.3	24.6	27.8	29.9	29.9	31.7	31.7	32.0	32.0	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
400	9.7	12.4	16.7	22.8	26.2	26.5	30.4	32.5	32.5	35.2	35.2	36.2	36.2	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
300	9.0	13.0	17.2	23.3	26.7	27.0	31.7	33.1	33.1	35.7	35.7	36.7	36.7	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
200	9.3	13.5	17.7	23.8	27.5	27.8	32.0	34.1	34.1	36.8	36.8	37.0	37.0	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
100	9.8	14.0	18.3	24.3	28.0	28.3	32.5	34.9	34.9	37.6	37.6	38.6	38.6	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
0	10.6	16.9	22.0	29.6	33.9	34.1	38.6	41.3	41.3	44.4	44.4	45.5	45.5	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
1000	10.6	16.9	22.0	29.6	33.9	34.1	38.6	41.3	41.3	44.4	44.4	45.5	45.5	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
900	14.0	21.4	28.0	37.0	43.4	43.7	49.2	52.1	52.1	56.6	56.6	57.4	57.4	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
800	15.3	22.8	29.9	41.0	49.9	49.7	57.7	60.8	61.1	65.3	65.3	66.1	66.1	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
700	17.7	26.2	33.6	47.6	56.6	57.4	66.4	70.1	70.6	75.1	75.1	76.7	76.7	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
600	18.0	26.5	33.9	48.4	57.9	58.7	68.0	71.7	72.2	76.7	76.7	77.5	77.5	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
500	19.3	28.3	36.0	53.2	63.2	64.0	74.3	78.0	78.6	83.6	83.6	84.7	84.7	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
400	19.6	28.6	36.5	54.2	64.6	65.3	76.7	81.0	81.7	87.3	87.3	88.6	88.6	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
300	19.6	28.6	36.5	54.2	64.6	65.3	76.7	81.0	81.7	87.3	87.3	88.6	88.6	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
200	19.6	28.6	36.5	54.2	64.6	65.3	76.7	81.0	81.7	87.3	87.3	88.6	88.6	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
100	19.6	28.6	36.5	54.2	64.6	65.3	76.7	81.0	81.7	87.3	87.3	88.6	88.6	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
0	19.6	28.6	36.5	54.2	64.6	65.3	76.7	81.0	81.7	87.3	87.3	88.6	88.6	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4

TOTAL NUMBER OF OBSERVATIONS 378

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265

BAD KREUZNACH DL

74-87

558

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0000-1100

		OR (HUNDREDS OF METERS)																			
		0190	0200	0210	0220	0230	0240	0250	0260	0270	0280	0290	0300	0310	0320	0330	0340	0350	0360	0370	0380
5.5	8.5	11.0	16.5	19.6	20.1	23.0	24.6	24.7	26.3	26.5	26.5	26.9	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
6.2	10.9	14.1	18.7	21.7	22.2	25.6	27.4	27.8	30.1	30.2	30.2	30.6	31.0	31.2	31.1	31.1	31.1	31.1	31.1	31.1	31.1
6.2	10.5	14.6	19.2	22.2	22.8	26.2	28.1	28.5	31.3	31.5	31.5	31.9	32.2	32.2	32.4	32.4	32.4	32.4	32.4	32.4	32.4
6.2	10.5	14.6	19.2	22.2	22.8	26.2	28.1	28.5	31.3	31.5	31.5	31.9	32.2	32.2	32.4	32.4	32.4	32.4	32.4	32.4	32.4
6.4	10.7	14.8	19.4	22.4	23.3	26.3	28.3	28.6	31.5	31.7	31.7	32.0	32.4	32.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6
6.6	11.0	15.1	19.8	22.8	23.3	26.7	28.6	29.0	31.9	32.0	32.0	32.4	32.7	32.7	32.9	32.9	32.9	32.9	32.9	32.9	32.9
6.9	11.6	15.7	20.5	23.5	24.0	27.4	29.4	29.9	33.3	33.5	33.5	33.8	34.2	34.2	34.7	34.7	34.7	34.7	34.7	34.7	34.7
7.3	11.9	16.0	20.8	23.8	24.4	27.8	29.7	30.2	33.6	33.8	33.8	34.2	34.5	34.5	35.1	35.1	35.1	35.1	35.1	35.1	35.1
8.4	13.2	17.3	22.2	25.8	26.5	30.4	32.4	33.3	36.7	37.0	37.0	37.0	37.4	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
8.9	14.2	18.7	24.7	29.0	29.7	33.8	35.8	36.7	40.0	40.4	40.4	40.6	41.1	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
9.3	14.6	19.0	25.1	29.5	30.2	34.3	36.3	37.2	40.7	41.1	41.3	41.8	42.5	42.5	43.1	43.1	43.1	43.1	43.1	43.1	43.1
9.8	15.5	19.9	26.2	30.8	31.5	35.8	37.7	38.6	42.2	42.5	42.7	43.2	44.0	44.0	44.5	44.5	44.5	44.5	44.5	44.5	44.5
11.6	17.6	22.6	29.5	35.4	36.3	40.9	43.2	44.1	48.0	48.4	48.6	49.1	49.8	49.8	50.4	50.4	50.4	50.4	50.4	50.4	50.4
13.0	20.1	25.6	32.6	38.4	39.3	44.1	46.4	47.3	51.4	51.8	52.0	52.8	53.7	53.7	54.3	54.3	54.3	54.3	54.3	54.3	54.3
16.0	24.6	30.6	39.1	46.1	47.0	52.7	55.5	56.4	61.0	61.4	61.7	62.6	63.5	63.5	64.1	64.1	64.1	64.1	64.1	64.1	64.1
17.4	26.3	32.9	42.5	50.4	51.2	58.5	61.7	62.6	67.3	67.6	68.0	68.9	69.8	69.8	70.3	70.3	70.3	70.3	70.3	70.3	70.3
19.9	29.0	36.7	48.0	56.4	57.3	66.0	69.9	71.0	76.0	76.3	76.7	77.6	78.5	78.5	79.2	79.2	79.2	79.2	79.2	79.2	79.2
20.3	30.4	38.4	50.5	59.1	60.0	68.7	72.6	73.7	78.6	79.0	79.4	80.2	81.1	81.1	81.7	81.7	81.7	81.7	81.7	81.7	81.7
21.4	31.9	40.4	54.6	63.3	64.6	73.5	78.1	79.2	85.4	85.8	86.1	87.2	88.1	88.1	88.6	88.6	88.6	88.6	88.6	88.6	88.6
21.4	32.0	40.9	55.2	64.1	65.3	74.4	79.5	80.8	87.5	87.9	88.3	89.3	90.2	90.2	90.7	90.7	90.7	90.7	90.7	90.7	90.7
21.9	32.6	41.6	55.9	64.8	66.0	75.1	80.4	81.7	88.4	89.0	89.7	90.9	91.8	91.8	92.3	92.3	92.3	92.3	92.3	92.3	92.3
21.9	32.6	41.6	55.9	64.9	66.2	75.3	80.6	82.0	89.1	89.7	90.4	91.6	92.5	92.5	93.1	93.1	93.1	93.1	93.1	93.1	93.1
21.9	32.6	41.6	55.9	64.9	66.2	75.3	80.6	82.0	89.1	89.7	90.7	92.3	93.2	93.2	93.8	93.8	93.8	93.8	93.8	93.8	93.8
21.9	32.6	41.6	55.9	64.9	66.4	75.4	80.8	82.2	89.3	90.0	91.3	92.9	93.8	93.8	94.3	94.3	94.3	94.3	94.3	94.3	94.3
21.9	32.6	41.6	55.9	64.9	66.4	75.6	81.0	82.4	89.9	90.9	92.2	93.8	94.8	95.0	95.9	95.9	95.9	95.9	95.9	95.9	95.9
21.9	32.6	41.6	55.9	64.9	66.4	75.6	81.0	82.4	89.9	90.9	92.3	94.1	95.7	96.4	98.0	98.0	98.0	98.0	98.0	98.0	98.0
21.9	32.6	41.6	55.9	64.9	66.4	75.6	81.0	82.4	89.9	90.9	92.3	94.5	96.3	97.0	99.6	99.6	99.6	99.6	99.6	99.6	99.6
21.9	32.6	41.6	55.9	64.9	66.4	75.6	81.0	82.4	89.9	90.9	92.3	94.5	96.3	97.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 562

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

172265 DAD KRED VACH DL

74-57

- FEB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

12-0-1400

US AIR FORCE

OR (HUNDREDS OF METERS)

GT90	EQ90	GE80	GE60	GE40	GE30	GE20	GE10	GE10	GE10	GE08	GE05	GE04	GE0
8.4	11.6	13.9	18.9	23.8	23.9	27.7	28.8	29.3	31.4	37.4	37.4	37.5	37.5
10.5	13.9	16.4	21.4	26.6	26.8	30.2	32.3	32.9	34.1	34.1	34.1	34.3	34.5
10.5	13.9	16.4	21.4	26.6	27.0	30.4	32.5	33.0	34.3	34.7	34.3	34.5	34.6
10.5	13.9	16.4	21.4	26.6	27.0	30.4	32.5	33.0	34.3	34.3	34.3	34.5	34.6
10.5	13.9	16.4	21.4	26.6	27.7	30.4	32.5	33.0	34.3	34.3	34.3	34.5	34.6
10.5	14.3	16.4	21.8	27.0	27.3	30.2	32.9	33.4	34.6	34.6	34.6	34.8	35.0
11.4	15.5	19.7	23.4	28.8	29.1	32.9	35.2	35.9	37.1	37.1	37.1	37.3	37.7
12.0	16.6	19.7	24.5	30.0	30.4	34.1	37.0	37.7	38.9	38.9	38.9	39.1	39.5
12.7	18.6	21.7	27.0	32.9	33.2	37.7	39.8	40.5	41.8	41.8	41.8	42.7	42.3
13.5	21.2	23.4	29.8	36.4	36.8	40.5	43.8	44.5	46.1	46.1	46.1	46.3	46.8
13.8	20.2	23.4	29.8	36.4	36.8	40.5	43.8	44.5	46.1	46.1	46.1	46.3	46.8
14.5	21.3	24.5	30.9	37.9	38.2	42.0	45.2	45.9	47.5	47.5	47.5	47.7	48.2
15.0	22.0	25.7	31.6	38.8	39.1	42.9	46.1	46.8	48.4	48.4	48.4	48.6	49.1
17.5	25.5	29.1	35.9	43.9	44.3	48.0	51.4	52.1	53.9	53.9	53.9	54.1	55.0
19.1	28.0	32.1	38.9	47.0	47.3	51.1	54.5	55.2	57.0	57.0	57.0	57.1	58.0
24.6	35.2	40.0	48.4	56.4	57.2	62.1	65.7	66.4	68.4	68.6	68.9	69.1	70.0
27.3	38.6	47.4	52.3	61.6	62.1	67.7	71.6	72.3	74.3	74.5	74.8	75.7	75.9
30.7	42.7	47.9	57.9	67.7	68.2	74.3	78.9	79.8	82.1	82.5	82.9	83.2	84.1
30.9	43.9	49.6	59.6	69.6	70.2	76.3	80.9	81.8	84.1	84.5	84.8	85.0	86.1
31.8	45.0	50.9	63.0	73.8	74.3	82.4	85.5	86.4	89.5	89.8	90.2	90.4	91.4
32.0	45.2	51.3	63.6	74.5	75.0	81.3	87.0	87.9	91.6	92.0	92.3	92.5	93.8
32.1	45.4	51.5	64.3	75.0	75.5	81.8	87.9	88.8	92.5	92.9	93.2	93.4	94.6
32.1	45.4	51.6	64.3	75.0	75.5	81.8	87.9	88.8	92.5	92.9	93.2	93.4	94.6
32.1	45.4	51.6	64.3	75.0	75.5	82.0	88.2	89.1	93.0	93.4	93.8	93.9	95.0
32.1	45.4	51.6	64.3	75.4	75.9	82.5	89.1	90.2	94.1	94.5	94.8	95.0	96.3
32.1	45.4	51.6	64.3	75.5	76.1	82.7	89.5	90.5	94.6	95.0	95.4	95.5	96.8
32.1	45.4	51.6	64.3	75.5	76.1	82.7	89.5	90.5	95.2	95.5	95.9	96.1	97.5
32.1	45.4	51.6	64.3	75.5	76.1	82.7	89.5	90.5	95.2	95.5	95.9	96.1	98.2
32.1	45.4	51.6	64.3	75.5	76.1	82.7	89.6	90.7	95.5	95.9	96.4	96.6	98.9
32.1	45.4	51.6	64.3	75.5	76.1	82.7	89.6	90.7	95.5	95.9	96.4	96.6	98.9
32.1	45.4	51.6	64.3	75.5	76.1	82.7	89.6	90.7	95.5	95.9	96.4	96.6	98.9

TOTAL NUMBER OF OBSERVATIONS 563

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265 BAD KREJENACH DL

74-03

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1062-1710

		CEILING (HUNDREDS OF METERS)																			
CEILING	VISIBILITY	0190	0200	0250	0300	0350	0400	0450	0500	0550	0600	0650	0700	0750	0800	0850	0900	0950	1000	1050	
12.0	14.9	17.6	25.0	26.8	27.1	29.6	30.5	31.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	
14.7	18.5	21.9	30.3	33.0	33.4	36.1	37.1	37.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	
14.9	18.7	22.1	30.5	33.8	34.1	36.8	37.7	38.2	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	
14.9	18.7	22.1	30.5	33.8	34.1	36.8	37.7	38.2	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	
15.1	18.9	22.3	30.7	33.9	34.3	37.0	37.9	38.4	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	
15.1	19.2	22.6	31.2	34.6	35.0	37.7	38.6	39.1	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	
16.5	20.8	25.0	33.4	37.0	37.5	40.2	41.1	41.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	
17.1	21.4	25.5	34.1	37.7	38.2	41.1	42.0	42.5	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	
19.2	24.6	28.9	38.8	42.5	43.1	46.0	46.9	47.4	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	
20.1	26.0	30.3	40.4	45.1	45.6	48.5	49.6	50.1	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	
20.1	26.0	30.3	40.4	45.1	45.6	48.5	49.6	50.1	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	
21.4	27.5	31.8	42.2	47.0	47.6	51.3	52.4	53.0	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	
22.8	29.4	33.8	44.2	49.0	49.6	53.3	54.4	54.9	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	
24.8	31.6	36.3	47.2	52.6	53.1	56.9	58.3	58.9	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	
26.2	33.9	39.0	50.3	55.7	56.2	60.0	61.4	61.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	
31.8	41.3	47.4	59.6	66.2	66.8	71.1	73.2	74.0	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	
34.6	44.3	50.4	63.7	70.9	71.5	75.3	77.9	78.6	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	
36.4	46.5	53.1	67.0	74.7	75.2	80.3	82.8	83.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	
36.8	47.4	54.2	68.2	76.1	77.0	82.2	84.7	85.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	
37.0	48.1	54.9	70.0	78.3	79.2	84.6	87.6	88.5	91.6	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	
37.7	48.8	55.7	71.3	79.5	80.4	86.4	89.6	90.5	93.7	94.3	94.3</										

CEILING VERSUS VISIBILITY

74-27

445

44-3886

• • • • •

OR. HUNDREDS OF METERS)

[illegible]TOTAL NUMBER OF OBSERVATIONS 418

USAF ETAC 0-14-5 IOL A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

74-83

542

94C-1122

• S B • • A • F M • K

~~OR HUNDREDS OF METERS)~~

GT9	FL90	GF80	GF60	GF48	GF40	GF32	GF24	GF22	GF16	GF10	GF10	GF08	GF35	GF30	GF00
8.7	12.7	14.9	18.4	20.8	21.0	21.4	21.4	21.9	22.4	22.4	22.4	22.4	22.4	22.4	22.4
13.0	18.8	21.0	25.3	28.1	28.3	29.2	29.8	30.4	31.1	31.1	31.1	31.1	31.1	31.1	31.1
13.0	18.8	21.0	25.6	28.4	28.6	30.0	30.6	31.2	31.8	31.8	31.8	31.8	31.8	31.8	31.8
13.2	16.9	21.1	25.8	28.6	28.7	30.1	30.7	31.4	32.0	32.0	32.0	32.0	32.0	32.0	32.0
13.2	19.1	21.3	25.9	28.7	28.9	30.4	31.1	31.7	32.3	32.3	32.3	32.3	32.3	32.3	32.3
14.4	20.7	22.9	27.8	30.9	31.1	33.1	33.7	34.7	34.9	34.9	34.9	34.9	34.9	34.9	34.9
16.1	22.5	25.3	31.1	34.8	34.9	37.4	38.4	39.0	39.8	39.8	39.8	39.8	39.8	39.8	39.8
18.7	24.8	29.4	35.2	40.1	40.2	43.2	44.1	44.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
19.1	26.1	29.7	37.3	42.5	42.7	45.8	46.7	47.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
19.1	26.1	29.7	37.3	42.5	42.7	45.8	46.7	47.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
21.0	28.0	31.5	39.4	44.7	44.9	48.7	48.9	49.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6
21.1	28.1	31.6	40.2	45.5	45.7	48.9	49.8	50.5	51.6	51.6	51.6	51.6	51.6	51.6	51.6
23.1	30.3	34.5	44.4	50.5	50.6	53.9	54.8	55.6	56.8	56.8	56.8	56.8	56.8	56.8	56.8
25.3	32.6	37.7	47.8	54.3	54.5	58.5	59.6	60.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6
30.0	38.5	43.3	56.5	64.4	65.2	71.0	71.1	71.9	73.3	73.3	73.3	73.3	73.3	73.3	73.3
32.0	41.1	46.4	60.7	69.6	70.5	75.8	76.9	77.8	79.5	79.5	79.5	79.5	79.5	79.5	79.5
34.8	45.7	51.7	67.4	76.6	77.5	83.1	84.8	85.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
36.0	47.0	53.1	69.3	78.4	79.5	85.1	87.0	88.0	90.1	90.1	90.1	90.1	90.1	90.1	90.1
37.3	49.1	55.1	71.9	81.2	82.3	87.9	89.8	91.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
37.9	49.7	55.9	73.0	82.6	83.7	89.4	91.6	93.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2
37.9	49.7	55.9	73.4	83.4	84.5	90.5	93.2	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0
37.9	49.7	55.9	73.4	83.7	84.8	91.1	93.8	95.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7
37.9	49.7	55.9	73.4	83.7	84.8	91.3	93.9	95.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8
37.9	49.7	55.9	73.4	83.7	84.8	91.3	94.6	96.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8
37.9	49.7	55.9	73.4	83.7	84.8	91.3	94.6	96.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8
37.9	49.7	55.9	73.4	83.7	84.8	91.3	94.6	96.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8
37.9	49.7	55.9	73.4	83.7	84.8	91.3	94.6	96.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8
37.9	49.7	55.9	73.4	83.7	84.8	91.3	94.6	96.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8
37.9	49.7	55.9	73.4	83.7	84.8	91.3	94.6	96.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8
37.9	49.7	55.9	73.4	83.7	84.8	91.3	94.6	96.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8
37.9	49.7	55.9	73.4	83.7	84.8	91.3	94.6	96.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8
37.9	49.7	55.9	73.4	83.7	84.8	91.3	94.6	96.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8

TOTAL NUMBER OF OBSERVATIONS 600

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

MA3

1200-1400

TOTAL NUMBER OF OBSERVATIONS 637

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOEAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-6265 BAD KREUNACH DL

74-82

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

		VISIBILITY: STATUTE MILES																OR (HUNDREDS OF METERS)													
		2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5
1000	FEET	67.9	69.0	68.0	66.0	64.8	62.4	60.0	57.6	55.2	52.8	50.4	48.0	45.6	43.2	40.8	38.4	36.0	33.6	31.2	28.8	26.4	24.0	21.6	19.2	16.8	14.4	12.0	9.6	7.2	4.8
900	FEET	16.5	22.3	23.7	26.7	28.9	29.1	29.2	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
800	FEET	21.0	28.9	30.5	35.2	37.6	38.0	38.3	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
700	FEET	21.0	28.9	30.5	35.2	37.6	38.0	38.3	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
600	FEET	21.0	28.9	30.5	35.2	37.6	38.0	38.3	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
500	FEET	21.2	29.1	30.7	35.5	38.0	38.4	38.8	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
400	FEET	21.8	30.0	31.7	36.5	38.9	39.4	39.7	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
300	FEET	23.1	31.6	33.4	38.9	41.4	41.8	42.3	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
200	FEET	25.0	34.2	36.0	41.5	43.9	44.6	45.4	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
100	FEET	27.9	38.1	40.1	46.0	48.5	49.1	50.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
0	FEET	32.4	40.5	42.5	48.8	51.2	52.3	53.6	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
1000	FEET	30.4	40.5	42.5	48.8	51.2	52.3	53.6	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
900	FEET	31.2	41.5	43.5	49.8	52.2	53.3	54.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
800	FEET	31.5	42.0	43.9	50.4	52.8	54.0	55.3	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
700	FEET	33.9	45.1	47.0	54.3	57.5	58.6	59.9	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
600	FEET	36.5	46.6	50.6	59.0	62.4	63.5	64.8	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
500	FEET	44.6	59.0	61.1	70.0	74.2	75.3	76.6	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
400	FEET	49.3	65.3	67.9	78.4	82.7	83.8	85.8	87.6	87.6	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
300	FEET	52.0	68.8	71.9	82.6	87.4	88.5	90.8	92.7	92.7	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
200	FEET	52.5	69.5	72.5	83.2	88.2	89.3	91.8	93.7	93.7	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
100	FEET	53.8	71.4	75.3	86.1	91.1	92.2	94.8	97.6	97.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
0	FEET	54.0	71.6	75.4	86.3	91.4	92.6	95.3	98.1	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1000	FEET	54.0	71.6	75.4	86.4	91.8	92.9	95.6	98.7	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
900	FEET	54.0	71.6	75.4	86.4	91.8	92.9	95.6	98.7	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
800	FEET	54.0	71.6	75.4	86.4	91.8	92.9	95.6	98.7	98.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
700	FEET	54.0	71.6	75.4	86.4	91.9	93.1	95.8	98.9	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
600	FEET	54.0	71.6	75.4	86.4	91.9	93.1	95.8	98.9	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
500	FEET	54.0	71.6	75.4	86.4	91.9	93.1	95.8	98.9	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
400	FEET	54.0	71.6	75.4	86.4	91.9	93.1	95.8	98.9	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
300	FEET	54.0	71.6	75.4	86.4	91.9	93.1	95.8	98.9	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
200	FEET	54.0	71.6	75.4	86.4	91.9	93.1	95.8	98.9	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
100	FEET	54.0	71.6	75.4	86.4	91.9	93.1	95.8	98.9	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
0	FEET	54.0	71.6	75.4	86.4	91.9	93.1	95.8	98.9	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 619

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265 BAD KREUZNACH DL

74-87

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

0630-0800

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
1000	12.0	21.6	26.9	33.7	36.8	37.7	39.9	40.9	40.9	41.1	41.1	41.1	41.1	41.1	41.1	41.3
900	13.9	25.5	31.0	38.7	41.8	42.1	45.7	46.9	46.9	47.4	47.4	47.4	47.4	47.4	47.4	47.6
800	14.7	26.4	32.0	39.7	42.8	43.0	46.6	48.1	48.1	48.6	48.6	48.6	48.6	48.6	48.6	48.8
700	14.7	26.4	32.0	39.7	42.8	43.0	46.6	48.1	48.1	48.6	48.6	48.6	48.6	48.6	48.6	48.8
600	14.7	26.4	32.0	39.7	42.8	43.0	46.6	48.1	48.1	48.6	48.6	48.6	48.6	48.6	48.6	48.8
500	14.7	26.4	32.0	39.7	42.8	43.0	46.6	48.1	48.1	48.6	48.6	48.6	48.6	48.6	48.6	48.8
400	14.7	26.4	32.0	39.7	42.8	43.0	46.6	48.1	48.1	48.6	48.6	48.6	48.6	48.6	48.6	48.8
300	14.7	26.4	32.0	39.7	42.8	43.0	46.6	48.1	48.1	48.6	48.6	48.6	48.6	48.6	48.6	48.8
200	15.4	28.4	34.9	43.8	46.9	47.1	51.0	52.4	52.4	52.9	52.9	52.9	52.9	52.9	52.9	53.1
100	16.3	29.8	36.3	46.4	49.5	49.8	54.1	55.5	55.5	56.0	56.0	56.0	56.0	56.0	56.0	56.3
50	20.0	35.1	42.1	52.4	56.3	56.5	61.1	62.7	62.7	63.5	63.5	63.5	63.5	63.5	63.5	63.7
25	23.4	36.1	43.3	53.8	58.4	58.7	63.2	64.9	64.9	65.9	66.1	66.1	66.1	66.1	66.1	66.3
15	20.4	36.1	43.3	53.8	58.4	58.7	63.2	64.9	64.9	65.9	66.1	66.1	66.1	66.1	66.1	66.3
10	20.7	37.3	44.7	55.3	59.9	60.1	64.9	66.6	66.6	67.5	67.8	67.8	67.8	67.8	67.8	68.0
5	21.4	38.2	45.7	56.5	61.1	61.3	66.1	67.8	67.8	68.8	69.0	69.0	69.0	69.0	69.0	69.2
0	23.6	41.6	49.3	60.8	65.9	66.1	70.9	72.6	72.6	73.6	73.8	73.8	73.8	73.8	73.8	74.0
1000	25.2	43.8	51.4	63.7	69.0	69.2	74.5	76.2	76.2	77.2	77.4	77.4	77.4	77.4	77.4	77.6
900	29.3	48.6	57.0	71.2	77.9	78.1	83.4	85.6	85.8	87.0	87.3	87.3	87.3	87.3	87.3	87.5
800	30.3	50.2	58.9	73.8	80.5	80.8	86.1	88.2	88.5	89.7	89.9	89.9	89.9	89.9	89.9	90.1
700	31.3	52.2	61.8	77.9	84.9	85.1	90.4	92.8	93.3	94.5	94.7	94.7	94.7	94.7	94.7	95.0
600	31.3	52.2	61.8	77.9	84.9	85.1	90.4	92.8	93.3	94.5	94.7	94.7	94.7	94.7	94.7	95.0
500	32.2	53.4	63.5	80.3	87.3	87.5	92.8	95.9	96.6	97.8	98.1	98.1	98.1	98.1	98.1	98.3
400	32.2	53.4	63.5	80.3	87.3	87.5	92.8	95.9	96.6	97.8	98.1	98.1	98.1	98.1	98.1	98.3
300	32.2	53.4	63.5	80.3	87.3	87.5	92.8	95.9	96.6	97.8	98.1	98.1	98.1	98.1	98.1	98.3
200	32.2	53.4	63.5	80.3	87.3	87.5	92.8	95.9	96.6	97.8	98.1	98.1	98.1	98.1	98.1	98.3
100	32.2	53.4	63.5	80.3	87.3	87.5	92.8	95.9	96.6	97.8	98.1	98.1	98.1	98.1	98.1	98.3
50	32.2	53.4	63.5	80.3	87.3	87.5	92.8	95.9	96.6	97.8	98.1	98.1	98.1	98.1	98.1	98.3
25	32.2	53.4	63.5	80.3	87.3	87.5	92.8	95.9	96.6	97.8	98.1	98.1	98.1	98.1	98.1	98.3
15	32.2	53.4	63.5	80.3	87.3	87.5	92.8	95.9	96.6	97.8	98.1	98.1	98.1	98.1	98.1	98.3
10	32.2	53.4	63.5	80.3	87.3	87.5	92.8	95.9	96.6	97.8	98.1	98.1	98.1	98.1	98.1	98.3
5	32.2	53.4	63.5	80.3	87.3	87.5	92.8	95.9	96.6	97.8	98.1	98.1	98.1	98.1	98.1	98.3
0	32.2	53.4	63.5	80.3	87.3	87.5	92.8	95.9	96.6	97.8	98.1	98.1	98.1	98.1	98.1	98.3

TOTAL NUMBER OF OBSERVATIONS 816

USAF ETAC 0-145 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

APC

2920-1120

OR HUNDREDS OF METERS)

TOTAL NUMBER OF OBSERVATIONS 623

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265 BAD KREUNACH DL

4-87

APP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY: STATUTE MILES																OR (HUNDREDS OF METERS)			
	200	200	250	240	230	220	210	200	190	180	170	160	150	140	130	120	200	250	240	230
GT900	23.5	31.7	33.1	37.2	40.5	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
800	29.8	39.7	41.5	46.6	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
700	29.8	39.7	41.5	46.6	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
600	29.8	39.7	41.5	46.6	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
500	29.8	39.7	41.5	46.6	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
400	30.1	40.0	41.8	46.9	50.7	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
300	31.4	41.3	43.1	48.3	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
200	31.9	42.1	44.1	49.6	53.4	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
100	34.5	45.0	46.9	52.6	56.5	57.0	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
0	36.0	46.9	49.4	55.0	59.0	59.5	59.7	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
900	36.2	47.3	49.8	55.4	59.3	59.8	60.0	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
800	36.7	47.9	50.4	56.0	60.2	60.7	60.8	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
700	37.7	49.1	51.6	57.2	61.3	61.8	62.0	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
600	40.6	53.2	55.7	61.5	65.8	66.3	66.4	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
500	45.3	58.7	61.3	67.8	72.1	72.6	72.7	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
400	52.6	68.3	71.1	79.7	84.3	84.8	85.0	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
300	55.7	72.1	74.9	83.8	88.4	88.9	89.1	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
200	60.7	78.2	81.5	90.6	95.5	96.0	96.4	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
100	60.8	78.3	81.7	90.7	95.7	96.2	96.5	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
0	61.7	79.7	83.0	92.6	97.5	98.0	98.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
900	61.7	79.8	83.1	92.7	97.7	98.2	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
800	61.7	79.8	83.1	92.7	97.7	98.2	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
700	61.7	79.8	83.1	92.7	97.7	98.2	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
600	61.7	79.8	83.1	92.7	97.7	98.2	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
500	61.7	79.8	83.1	92.7	97.7	98.2	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
400	61.7	79.8	83.1	92.7	97.7	98.2	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
300	61.7	79.8	83.1	92.7	97.7	98.2	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
200	61.7	79.8	83.1	92.7	97.7	98.2	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
100	61.7	79.8	83.1	92.7	97.7	98.2	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
0	61.7	79.8	83.1	92.7	97.7	98.2	98.5	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS 605

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

14265

BAD KREUNACH DL

74-83

APR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

ELEVATION FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
1000	28.4	38.7	38.7	40.4	42.3	42.3	42.3	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
2000	37.2	49.2	49.2	51.5	53.4	53.4	53.4	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
3000	37.8	49.8	49.8	52.1	53.9	53.9	53.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
4000	37.8	49.8	49.8	52.1	53.9	53.9	53.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
5000	38.0	50.4	50.4	52.6	54.5	54.5	54.5	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
6000	38.5	51.3	51.3	53.9	55.8	55.8	55.8	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
7000	39.5	53.6	53.6	56.4	58.3	58.3	58.3	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
8000	41.2	55.8	55.8	58.8	60.7	60.7	60.7	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
9000	43.8	58.8	59.6	62.8	64.8	64.8	64.8	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
10000	46.1	61.3	62.6	66.2	68.2	68.2	68.2	68.8	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
11000	46.1	61.3	62.6	66.2	68.2	68.2	68.2	68.8	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
12000	46.6	61.8	63.2	66.7	68.8	68.8	68.8	69.4	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
13000	47.2	62.6	63.9	67.5	69.9	69.9	69.9	70.5	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
14000	49.1	65.2	66.7	71.7	73.1	73.1	73.1	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
15000	53.6	70.9	72.6	77.1	79.5	79.5	79.5	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
16000	59.8	78.0	79.9	84.6	87.2	87.2	87.2	87.8	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
17000	62.2	81.6	83.5	89.3	91.9	91.9	91.9	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
18000	64.5	84.6	86.7	92.7	95.3	95.3	95.3	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
19000	65.0	85.2	87.2	93.2	95.9	95.9	95.9	96.2	96.8	97.0	97.0	97.0	97.0	97.0	97.0	97.0
20000	65.8	86.1	88.2	95.1	97.7	97.7	97.7	98.1	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
21000	66.2	86.5	88.5	95.5	98.1	98.1	98.1	98.5	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
22000	66.5	86.8	89.1	96.1	98.7	98.7	98.7	99.1	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
23000	66.5	86.8	89.1	96.1	98.7	98.7	98.7	99.1	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
24000	66.5	86.8	89.1	96.1	98.7	98.7	98.7	99.1	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
25000	66.5	86.8	89.1	96.1	98.7	98.7	98.7	99.1	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
26000	66.5	86.8	89.1	96.1	98.7	98.7	98.7	99.1	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
27000	66.5	86.8	89.1	96.1	98.7	98.7	98.7	99.1	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
28000	66.5	86.8	89.1	96.1	98.7	98.7	98.7	99.1	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
29000	66.5	86.8	89.1	96.1	98.7	98.7	98.7	99.1	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
30000	66.5	86.8	89.1	96.1	98.7	98.7	98.7	99.1	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 532

CEILING VERSUS VISIBILITY

1-6265

BAD KREUZNACH DL

74-63

 MAY

4630-2802

TOTAL NUMBER OF OBSERVATIONS 404

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

16265 BAD KREUNACH DL

74-87

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

920-1100

CEILING FEET	VISIBILITY, STATUTE MILES OR (HUNDREDS OF METERS)															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
20000	20.8	28.1	30.2	35.3	37.5	37.5	37.8	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
18000	23.8	32.2	35.1	42.1	44.4	44.4	44.7	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
16000	24.1	32.5	35.5	42.4	44.7	44.7	45.0	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
14000	24.3	32.7	35.6	42.6	44.9	44.9	45.2	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
12000	24.4	33.2	36.1	44.2	46.5	46.5	46.9	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
10000	25.4	34.8	38.1	47.0	49.3	49.3	49.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
9000	27.6	38.4	41.7	50.7	53.0	53.0	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
8000	30.4	42.9	46.7	56.1	58.6	58.7	59.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
7000	31.0	44.1	48.2	57.6	60.1	60.2	60.6	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
6000	31.2	44.4	48.7	58.1	60.6	60.7	61.1	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
5000	32.7	46.2	50.7	60.4	62.9	63.0	63.4	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
4500	33.2	47.4	52.3	62.7	65.2	65.3	65.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
4000	35.6	50.2	55.8	66.5	69.0	69.1	69.5	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
3500	39.1	55.8	61.4	72.4	75.6	75.7	76.1	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
3000	45.2	62.5	68.3	79.9	83.2	83.3	83.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
2500	47.2	64.9	70.6	82.3	86.0	86.1	86.8	87.1	87.1	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2000	50.2	68.0	73.9	87.1	90.9	91.1	91.7	92.1	92.1	92.4	92.4	92.4	92.4	92.4	92.4	92.4
1800	50.2	68.0	73.9	87.1	91.1	91.3	91.9	92.2	92.2	92.6	92.6	92.6	92.6	92.6	92.6	92.6
1600	50.8	70.0	76.1	89.3	93.2	93.4	94.2	94.6	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9
1400	51.3	70.6	76.7	89.9	94.4	94.6	95.7	96.2	96.2	96.5	96.5	96.5	96.5	96.5	96.5	96.5
1200	51.5	71.3	77.7	91.1	95.7	96.0	97.4	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5
1000	51.5	71.3	77.7	91.1	95.7	96.0	97.4	98.5	98.5	99.2	99.3	99.3	99.3	99.3	99.3	99.3
900	51.5	71.3	77.7	91.1	95.7	96.0	97.4	98.7	98.7	99.5	99.7	99.7	99.7	99.7	99.7	99.7
800	51.5	71.3	77.7	91.1	95.7	96.0	97.4	98.8	98.8	99.7	99.8	99.8	99.8	99.8	99.8	99.8
700	51.5	71.3	77.7	91.1	95.7	96.0	97.4	98.8	98.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
600	51.5	71.3	77.7	91.1	95.7	96.0	97.4	98.8	98.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
500	51.5	71.3	77.7	91.1	95.7	96.0	97.4	98.8	98.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
400	51.5	71.3	77.7	91.1	95.7	96.0	97.4	98.8	98.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
300	51.5	71.3	77.7	91.1	95.7	96.0	97.4	98.8	98.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
200	51.5	71.3	77.7	91.1	95.7	96.0	97.4	98.8	98.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
100	51.5	71.3	77.7	91.1	95.7	96.0	97.4	98.8	98.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0
0	51.5	71.3	77.7	91.1	95.7	96.0	97.4	98.8	98.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 606

USAF ETAC FORM 12-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

MAY

12-7-1900

TOTAL NUMBER OF OBSERVATIONS 589

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

74-82

- 44 -

15-2-1720

* S.B. 1111, S.A. 1111S

OR HUNDREDS OF METERS)

179.2	180.2	181.2	182.2	183.2	184.2	185.2	186.2	187.2	188.2	189.2	190.2	191.2	192.2	193.2	194.2	195.2	196.2	197.2	198.2	199.2	200.2	201.2	202.2	203.2	204.2	205.2	206.2	207.2	208.2	209.2	210.2	211.2	212.2	213.2	214.2	215.2	216.2	217.2	218.2	219.2	220.2	221.2	222.2	223.2	224.2	225.2	226.2	227.2	228.2	229.2	230.2	231.2	232.2	233.2	234.2	235.2	236.2	237.2	238.2	239.2	240.2	241.2	242.2	243.2	244.2	245.2	246.2	247.2	248.2	249.2	250.2	251.2	252.2	253.2	254.2	255.2	256.2	257.2	258.2	259.2	260.2	261.2	262.2	263.2	264.2	265.2	266.2	267.2	268.2	269.2	270.2	271.2	272.2	273.2	274.2	275.2	276.2	277.2	278.2	279.2	280.2	281.2	282.2	283.2	284.2	285.2	286.2	287.2	288.2	289.2	290.2	291.2	292.2	293.2	294.2	295.2	296.2	297.2	298.2	299.2	300.2	301.2	302.2	303.2	304.2	305.2	306.2	307.2	308.2	309.2	310.2	311.2	312.2	313.2	314.2	315.2	316.2	317.2	318.2	319.2	320.2	321.2	322.2	323.2	324.2	325.2	326.2	327.2	328.2	329.2	330.2	331.2	332.2	333.2	334.2	335.2	336.2	337.2	338.2	339.2	340.2	341.2	342.2	343.2	344.2	345.2	346.2	347.2	348.2	349.2	350.2	351.2	352.2	353.2	354.2	355.2	356.2	357.2	358.2	359.2	360.2	361.2	362.2	363.2	364.2	365.2	366.2	367.2	368.2	369.2	370.2	371.2	372.2	373.2	374.2	375.2	376.2	377.2	378.2	379.2	380.2	381.2	382.2	383.2	384.2	385.2	386.2	387.2	388.2	389.2	390.2	391.2	392.2	393.2	394.2	395.2	396.2	397.2	398.2	399.2	400.2	401.2	402.2	403.2	404.2	405.2	406.2	407.2	408.2	409.2	410.2	411.2	412.2	413.2	414.2	415.2	416.2	417.2	418.2	419.2	420.2	421.2	422.2	423.2	424.2	425.2	426.2	427.2	428.2	429.2	430.2	431.2	432.2	433.2	434.2	435.2	436.2	437.2	438.2	439.2	440.2	441.2	442.2	443.2	444.2	445.2	446.2	447.2	448.2	449.2	450.2	451.2	452.2	453.2	454.2	455.2	456.2	457.2	458.2	459.2	460.2	461.2	462.2	463.2	464.2	465.2	466.2	467.2	468.2	469.2	470.2	471.2	472.2	473.2	474.2	475.2	476.2	477.2	478.2	479.2	480.2	481.2	482.2	483.2	484.2	485.2	486.2	487.2	488.2	489.2	490.2	491.2	492.2	493.2	494.2	495.2	496.2	497.2	498.2	499.2	500.2	501.2	502.2	503.2	504.2	505.2	506.2	507.2	508.2	509.2	510.2	511.2	512.2	513.2	514.2	515.2	516.2	517.2	518.2	519.2	520.2	521.2	522.2	523.2	524.2	525.2	526.2	527.2	528.2	529.2	530.2	531.2	532.2	533.2	534.2	535.2	536.2	537.2	538.2	539.2	540.2	541.2	542.2	543.2	544.2	545.2	546.2	547.2	548.2	549.2	550.2	551.2	552.2	553.2	554.2	555.2	556.2	557.2	558.2	559.2	560.2	561.2	562.2	563.2	564.2	565.2	566.2	567.2	568.2	569.2	570.2	571.2	572.2	573.2	574.2	575.2	576.2	577.2	578.2	579.2	580.2	581.2	582.2	583.2	584.2	585.2	586.2	587.2
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TOTAL NUMBER OF OBSERVATIONS 513

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

7-67

— *John G. Saxe*

44-3886

~~OR HUNDREDS OF METERS~~

[illegible]TOTAL NUMBER OF OBSERVATIONS 408

USA 8740 0-14-5101 A PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

7-20

44

50-1100

[illegible]TOTAL NUMBER OF OBSERVATIONS 614

USA PAT. 2,914,510. PREVIOUS EDITIONS IN THIS FORM ARE OBSOLETE.

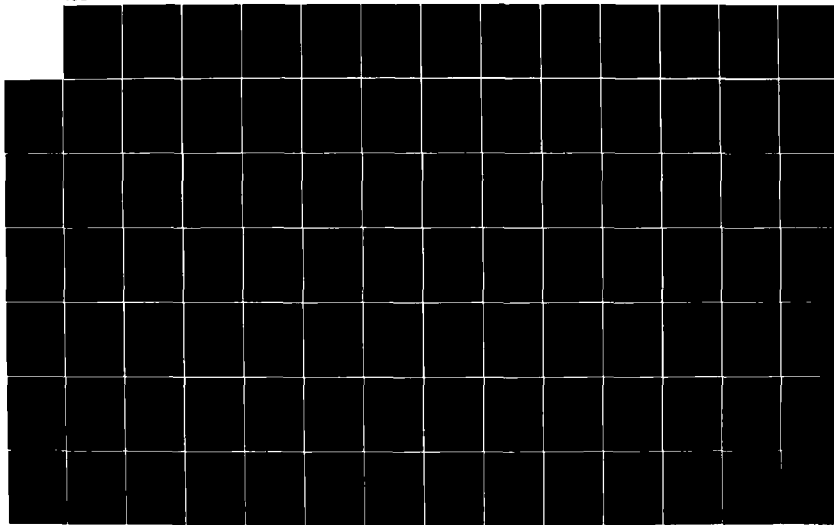
AD-A140 243

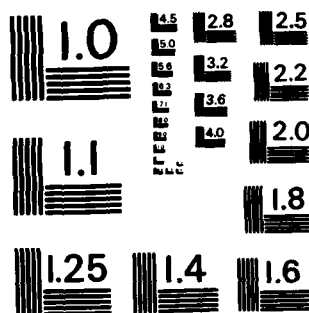
BAD KREUZNACH GERMANY(WEST) LIMITED SURFACE
OBSERVATIONS CLIMATIC SUMMARY..(U) AIR FORCE
ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER SCOTT A..
23 JAN 84 USAFETAC/DS-84/003 F/G 4/2

2/3

UNCLASSIFIED

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265

BAD KREUZNACH DL

73-82

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES																OR (HUNDREDS OF METERS)													
	≥10	≥8	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005	≥10	≥8	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025
NO CEILING	22.8	29.1	29.1	31.2	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	
≥ 20000	28.8	35.9	35.9	38.2	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	
IV 18000	29.1	36.3	36.3	38.5	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	
IV 6000	29.5	36.6	36.6	39.0	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	
IV 4000	29.8	37.1	37.1	39.7	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	
IV 12000	31.0	38.5	38.5	41.1	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	
IV 10000	32.4	40.0	40.0	42.8	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	
IV 9000	34.1	42.1	42.2	45.1	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	
IV 8000	37.6	47.7	48.2	51.6	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	
IV 7000	41.2	51.6	52.1	55.9	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	
IV 6000	41.4	51.8	52.3	56.0	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	
IV 5000	43.6	54.2	54.7	58.6	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	
IV 4500	44.3	55.7	56.2	60.1	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	
IV 4000	48.7	62.0	62.5	66.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	
IV 3500	53.0	67.6	68.1	73.3	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	
IV 3000	61.7	78.7	80.4	86.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	
IV 2500	65.6	83.5	85.5	91.8	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	
IV 2000	67.3	85.3	87.6	94.0	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	
IV 1800	67.5	85.5	87.7	94.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	
IV 1500	67.8	86.2	88.4	95.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	
IV 1200	68.1	86.9	89.3	96.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	
IV 1000	68.3	87.1	89.4	96.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
IV 900	68.3	87.1	89.4	96.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
IV 800	68.3	87.1	89.4	96.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
IV 700	68.3	87.1	89.4	96.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
IV 600	68.3	87.1	89.4	96.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
IV 500	68.3	87.1	89.4	96.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
IV 400	68.3	87.1	89.4	96.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
IV 300	68.3	87.1	89.4	96.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
IV 200	68.3	87.1	89.4	96.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
IV 100	68.3	87.1	89.4	96.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	
IV 0	68.3	87.1	89.4	96.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	

TOTAL NUMBER OF OBSERVATIONS 587

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265

BAD KREUZNACH DL

73-82

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	25.8	34.0	34.6	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
≥ 20000	35.3	45.5	46.1	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
≥ 18000	35.3	45.5	46.1	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
≥ 16000	35.3	45.5	46.1	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
≥ 14000	35.7	45.9	46.4	47.0	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
≥ 12000	37.2	47.4	47.9	48.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
≥ 10000	38.9	49.4	50.0	50.8	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 9000	40.6	51.5	52.1	52.8	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 8000	44.5	56.2	57.1	58.1	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 7000	48.3	60.2	61.1	62.6	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
≥ 6000	48.5	60.3	61.3	62.8	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 5000	52.4	64.7	65.6	67.1	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 4500	54.5	67.5	68.4	69.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 4000	58.8	72.6	73.9	75.6	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 3500	62.6	78.8	80.1	81.8	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 3000	69.5	87.2	88.5	91.0	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
≥ 2500	72.4	91.2	92.5	95.1	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 2000	74.1	93.2	94.7	97.4	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 1800	74.1	93.2	94.7	97.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1500	74.1	93.2	94.7	98.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1200	74.1	93.2	94.7	98.1	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1000	74.1	93.2	94.7	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	74.1	93.2	94.7	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	74.1	93.2	94.7	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	74.1	93.2	94.7	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	74.1	93.2	94.7	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	74.1	93.2	94.7	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	74.1	93.2	94.7	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	74.1	93.2	94.7	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	74.1	93.2	94.7	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	74.1	93.2	94.7	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	74.1	93.2	94.7	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 532

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265
STATION

BAD KREUZNACH DL
STATION NAME

73-82
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

3600-0000
LOCAL TIME

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 GT90	≥8 EQ90	≥5 GE80	≥4 GE60	≥3 GE48	≥2.5 GE40	≥2 GE32	≥1.5 GE24	≥1 GE20	≥1 GE16	≥.75 GE12	≥.5 GE10	≥.25 GE08	≥.16 GE05	≥.1 GE04	≥.05 GE02
NO CEILING	12.7	20.4	24.9	32.7	35.4	36.2	37.9	38.2	38.2	38.4	38.4	38.4	38.4	38.4	38.4	38.4
≥ 20000	16.0	25.4	30.2	38.7	41.4	42.6	44.4	44.9	44.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1
≥ 18000	16.0	25.4	30.2	38.9	41.6	42.9	44.6	45.1	45.1	45.4	45.4	45.4	45.4	45.4	45.4	45.4
≥ 16000	16.2	25.7	30.4	39.2	41.9	43.1	44.9	45.4	45.4	45.6	45.6	45.6	45.6	45.6	45.6	45.6
≥ 14000	16.7	26.2	30.9	39.7	42.4	43.6	45.4	45.9	45.9	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 12000	18.2	28.2	32.9	41.6	44.4	45.6	47.4	47.9	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1
≥ 10000	21.4	33.2	38.4	47.4	50.4	51.6	53.6	54.1	54.1	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 9000	22.9	35.2	40.4	49.9	52.9	54.1	56.4	56.9	56.9	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 8000	25.2	39.7	45.6	55.6	59.1	60.6	62.8	63.3	63.3	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 7000	26.2	41.1	47.4	57.6	61.3	62.8	65.1	65.6	65.6	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 6000	26.2	41.1	47.4	57.6	61.3	62.8	65.1	65.6	65.6	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 5000	27.4	42.9	49.1	59.9	63.8	65.3	67.8	68.3	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6
≥ 4500	29.4	44.9	51.1	62.6	66.6	68.1	70.6	71.1	71.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 4000	32.7	50.1	57.6	69.8	74.1	75.6	78.1	78.6	78.6	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 3500	35.2	53.1	60.6	74.1	78.8	80.3	83.0	83.5	83.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8
≥ 3000	36.7	55.4	64.1	79.1	83.8	85.3	88.5	89.0	89.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 2500	37.9	57.9	67.1	83.3	88.5	90.0	93.3	93.8	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 2000	39.4	59.4	69.1	85.3	90.5	92.5	96.0	96.5	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1800	40.1	60.1	69.8	86.0	91.3	93.3	96.8	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1500	40.6	60.8	70.6	86.8	92.3	94.3	97.8	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1200	40.6	60.8	70.6	86.8	92.3	94.3	97.8	98.3	98.3	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1000	40.6	61.3	71.1	87.3	92.8	94.8	98.3	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 900	40.9	61.8	71.6	87.8	93.3	95.3	98.8	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 800	40.9	61.8	71.6	87.8	93.3	95.3	98.8	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 700	40.9	61.8	71.6	87.8	93.3	95.3	98.8	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 600	40.9	61.8	71.6	87.8	93.3	95.3	98.8	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500	40.9	61.8	71.6	87.8	93.3	95.3	98.8	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400	40.9	61.8	71.6	87.8	93.3	95.3	98.8	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300	40.9	61.8	71.6	87.8	93.3	95.3	98.8	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 200	40.9	61.8	71.6	87.8	93.3	95.3	98.8	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	40.9	61.8	71.6	87.8	93.3	95.3	98.8	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0	40.9	61.8	71.6	87.8	93.3	95.3	98.8	99.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 801

USAF ETAC FORM 10-14-54 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265 BAD KREUZNACH DL

73-82

1111

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0900-1100

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ 0.5	≥ 0.25	≥ 0.15	≥ 0.1	≥ 0.05	≥ 0.025	≥ 0
NO CEILING	17.7	26.1	27.2	33.3	35.6	35.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
≥ 20000	20.3	30.5	32.0	38.8	41.7	41.9	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
≥ 18000	20.3	30.5	32.0	38.8	42.1	42.2	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥ 16000	20.3	30.5	32.0	38.8	42.1	42.2	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥ 14000	20.3	30.5	32.3	39.1	42.4	42.6	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥ 12000	20.8	32.0	33.8	40.8	44.1	44.2	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
≥ 10000	24.6	37.0	39.1	46.4	49.7	49.8	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 9000	26.4	39.3	41.6	48.8	52.1	52.3	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
≥ 8000	30.2	44.6	47.0	55.3	58.9	59.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
≥ 7000	31.8	45.9	48.3	57.1	61.1	61.2	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 6000	31.4	45.9	48.3	57.1	61.1	61.2	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 5000	32.5	47.5	50.2	59.1	63.2	63.4	64.7	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 4500	34.7	50.2	52.8	62.2	66.3	66.5	67.8	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 4000	40.9	57.6	60.6	70.5	74.9	75.1	76.4	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 3500	43.4	60.7	64.0	74.1	78.9	79.0	80.5	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 3000	48.7	66.8	70.5	80.7	85.6	85.8	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 2500	51.3	70.5	74.3	85.5	91.4	91.6	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
≥ 2000	53.0	72.8	76.9	88.1	94.2	94.4	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 1800	53.5	73.8	78.1	89.3	95.4	95.5	97.2	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5
≥ 1500	53.8	74.3	78.7	90.1	96.2	96.4	98.0	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1200	54.0	74.4	78.9	90.4	96.7	96.9	98.7	98.8	98.8	98.8	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1000	54.1	74.6	79.0	90.6	96.9	97.0	98.8	99.0	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900	54.3	74.8	79.2	90.8	97.0	97.2	99.0	99.2	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	54.3	74.8	79.2	90.8	97.0	97.2	99.0	99.3	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	54.3	74.8	79.2	90.8	97.0	97.2	99.0	99.3	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	54.3	74.8	79.2	90.8	97.0	97.2	99.0	99.3	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	54.3	74.8	79.2	90.8	97.0	97.2	99.0	99.3	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	54.3	74.8	79.2	90.8	97.0	97.2	99.0	99.3	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	54.3	74.8	79.2	90.8	97.0	97.2	99.0	99.3	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	54.3	74.8	79.2	90.8	97.0	97.2	99.0	99.3	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	54.3	74.8	79.2	90.8	97.0	97.2	99.0	99.3	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	54.3	74.8	79.2	90.8	97.0	97.2	99.0	99.3	99.3	99.5	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 600

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265
STATION

BAD KREUZNACH DL
STATION NAME

73-82
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400
HOURS

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥ 10	≥ 6	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.25	≥ 1	≥ 0.75	≥ 0.5	≥ 0.25	≥ 0.125	≥ 0.0625	≥ 0.03125	≥ 0.015625	≥ 0.0078125
NO CEILING ≥ 20000	20.6	28.7	29.4	31.9	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
≥ 18000 IV 18000	25.7	34.4	35.1	38.3	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
≥ 14000 IV 12000	25.7	34.4	35.1	38.3	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
≥ 10000 IV 9000	25.8	34.6	35.2	38.4	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
≥ 8000 IV 7000	26.5	35.4	36.1	39.3	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 6000 IV 5000	29.7	38.9	39.6	43.3	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
≥ 4500 IV 4000	31.9	41.4	42.1	46.0	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
≥ 3500 IV 3000	36.2	46.3	47.0	51.2	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 3000 IV 2500	38.1	48.7	49.5	53.7	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 2500 IV 2000	38.1	49.0	49.8	54.0	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
≥ 2000 IV 1500	40.1	51.3	52.2	56.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 1800 IV 1500	43.6	55.7	56.5	60.9	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 1500 IV 1200	50.7	64.6	65.4	70.0	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 1200 IV 1000	55.7	70.6	71.5	76.5	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
≥ 1000 IV 800	63.3	78.5	79.5	84.9	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 800 IV 600	68.0	84.1	85.2	90.8	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 600 IV 400	68.3	84.6	85.7	91.6	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 400 IV 300	68.6	85.6	86.7	92.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 300 IV 200	69.3	86.9	88.1	94.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200 IV 100	69.8	87.6	88.8	95.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100 IV 0	69.8	87.6	88.8	95.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 594

USAF ETAC FORM 1 JUL 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265 BAD KREUZNACH DL

73-82

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥ 10	≥ 6	≥ 3	≥ 4	≥ 3	≥ 2	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
NO CEILING	24.6	34.3	34.8	36.1	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
≥ 20000	28.5	39.8	40.6	42.0	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
IV 18000	29.1	40.6	41.3	42.8	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 16000	29.3	40.7	41.5	43.0	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 14000	29.3	40.7	41.5	43.0	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 12000	30.7	42.6	43.3	44.8	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
IV 10000	35.4	48.0	48.7	50.4	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 9000	38.3	51.5	52.2	53.9	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
IV 8000	43.0	56.5	57.2	59.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
IV 7000	46.1	60.0	60.7	62.6	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
IV 6000	46.1	60.0	60.7	62.6	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
IV 5000	51.3	65.6	66.3	68.1	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
≥ 4500	55.0	69.6	70.4	72.2	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
≥ 4000	61.7	77.8	78.7	80.6	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3500	64.3	80.9	81.9	84.3	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 3000	69.6	87.6	88.7	91.7	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 2500	71.9	90.6	91.7	94.6	96.1	96.1	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 2000	72.8	91.5	92.8	96.1	97.6	97.6	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1800	72.8	91.9	93.1	96.5	98.0	98.0	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 1500	73.0	92.2	93.5	96.9	98.7	98.7	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 1200	73.0	92.2	93.7	97.0	99.3	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 1000	73.0	92.4	94.1	97.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	73.0	92.4	94.1	97.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	73.0	92.4	94.1	97.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	73.0	92.4	94.1	97.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	73.0	92.4	94.1	97.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	73.0	92.4	94.1	97.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	73.0	92.4	94.1	97.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	73.0	92.4	94.1	97.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	73.0	92.4	94.1	97.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	73.0	92.4	94.1	97.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	73.0	92.4	94.1	97.4	99.6	99.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 540

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265 BAD KREUZNACH DL

73-82

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0600

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	18.9	27.8	32.3	39.0	43.3	43.5	45.2	45.5	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
≥ 20000	21.1	30.6	36.1	43.5	48.1	48.6	50.2	50.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 18000	21.5	31.1	36.6	44.5	49.0	49.5	51.2	51.9	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 16000	21.5	31.1	36.8	44.7	49.3	49.8	51.4	52.2	52.4	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 14000	21.5	31.1	36.8	45.2	49.8	50.2	51.9	52.6	52.9	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 12000	22.7	33.0	38.8	47.4	51.9	52.4	54.1	54.8	55.0	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 10000	25.6	36.4	42.3	51.4	56.5	57.2	58.9	59.8	60.0	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 9000	25.8	36.6	42.6	51.7	56.7	57.7	59.3	60.3	60.5	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 8000	28.5	40.2	47.6	58.1	64.1	65.3	67.5	68.9	69.4	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 7000	29.7	41.6	49.3	60.0	66.3	67.5	69.6	71.3	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 6000	29.7	41.6	49.3	60.0	66.5	67.7	69.9	71.5	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 5000	30.9	43.3	51.0	62.0	68.7	69.9	72.0	73.7	74.2	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 4500	32.1	44.5	52.4	63.9	71.3	72.5	74.6	76.3	76.8	77.0	77.0	77.0	77.0	77.0	77.0	77.0
≥ 4000	33.5	46.2	54.1	65.8	74.2	75.4	77.2	79.9	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 3500	34.7	48.1	56.0	68.2	77.0	78.7	81.1	82.8	83.3	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥ 3000	36.8	51.7	60.0	73.2	84.0	85.9	88.3	90.0	90.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 2500	36.8	52.9	61.5	74.6	85.4	87.3	89.7	91.4	92.1	92.6	92.6	92.6	92.6	92.6	92.6	92.8
≥ 2000	37.3	53.3	62.2	75.6	86.4	88.3	91.1	93.3	94.0	94.5	94.5	94.5	94.5	94.5	94.5	94.7
≥ 1800	37.3	53.3	62.2	75.8	86.6	88.5	91.4	94.0	94.7	95.2	95.2	95.2	95.2	95.2	95.2	95.5
≥ 1500	37.3	53.3	62.7	76.3	87.3	89.5	92.8	95.5	96.2	96.9	96.9	96.9	96.9	96.9	96.9	97.1
≥ 1200	37.3	53.3	62.7	76.3	87.3	89.5	92.8	95.5	96.2	96.9	96.9	96.9	96.9	96.9	96.9	97.1
≥ 1000	37.3	53.3	62.7	76.8	87.8	90.0	93.8	96.7	97.6	98.3	98.3	98.3	98.3	98.3	98.3	98.6
≥ 900	37.3	53.3	62.7	76.8	87.8	90.0	93.8	96.7	97.6	98.3	98.3	98.3	98.3	98.3	98.3	98.6
≥ 800	37.3	53.3	62.7	76.8	87.8	90.0	93.8	96.7	97.6	98.3	98.3	98.3	98.3	98.3	98.3	98.6
≥ 700	37.3	53.3	62.7	76.8	87.8	90.0	93.8	96.7	97.6	98.3	98.3	98.3	98.3	98.3	98.3	98.6
≥ 600	37.3	53.3	62.7	76.8	87.8	90.0	93.8	96.7	97.6	98.3	98.3	98.3	98.3	98.3	98.3	98.6
≥ 500	37.3	53.3	62.7	76.8	87.8	90.0	93.8	96.9	97.8	99.0	99.0	99.0	99.0	99.0	99.0	99.8
≥ 400	37.3	53.3	62.7	76.8	87.8	90.0	93.8	96.9	97.8	99.0	99.0	99.0	99.0	99.0	99.0	99.8
≥ 300	37.3	53.3	62.7	76.8	87.8	90.0	93.8	96.9	97.8	99.0	99.0	99.0	99.0	99.0	99.3	100.0
≥ 200	37.3	53.3	62.7	76.8	87.8	90.0	93.8	96.9	97.8	99.0	99.0	99.0	99.0	99.0	99.3	100.0
≥ 100	37.3	53.3	62.7	76.8	87.8	90.0	93.8	96.9	97.8	99.0	99.0	99.0	99.0	99.0	99.3	100.0
≥ 0	37.3	53.3	62.7	76.8	87.8	90.0	93.8	96.9	97.8	99.0	99.0	99.0	99.0	99.0	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 318

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265
STATION

BAD KREUZNACH DL
STATION NAME

73-82
YEARS

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

C900-1100
TIME

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.2	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ 0
NO CEILING	20.3	29.3	32.7	39.9	42.1	43.1	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 20000	22.2	32.9	36.5	44.8	47.8	48.8	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
IV 18000	22.2	32.9	36.5	45.0	48.0	49.0	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
IV 16000	22.2	32.9	36.5	45.0	48.0	49.0	50.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
IV 14000	22.5	33.5	37.2	45.6	48.6	49.6	51.0	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
IV 12000	23.9	35.2	38.9	47.5	50.6	51.5	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
IV 10000	27.8	39.9	44.0	53.0	56.0	56.9	58.5	58.9	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 9000	29.2	41.9	46.4	55.8	59.0	60.0	61.6	61.9	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0
IV 8000	31.9	46.3	51.0	61.6	65.6	66.5	68.3	68.6	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.7
IV 7000	32.7	47.0	51.8	62.5	66.8	67.8	69.7	70.0	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2
IV 6000	32.7	47.0	51.8	62.5	66.8	67.8	69.9	70.2	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3
IV 5000	33.0	48.0	52.8	64.0	68.6	69.5	71.6	71.9	71.9	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 4500	33.5	48.6	53.7	65.2	70.5	71.5	73.5	73.8	73.8	74.0	74.0	74.0	74.0	74.0	74.0	74.0
IV 4000	35.1	50.7	56.0	67.8	73.5	74.5	77.4	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8
IV 3500	37.6	53.7	59.2	71.3	77.0	78.0	81.0	81.3	81.3	81.5	81.5	81.5	81.5	81.5	81.5	81.5
IV 3000	41.9	59.3	64.8	78.5	84.4	85.3	88.7	89.2	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5
IV 2500	43.7	61.2	66.7	80.4	86.3	87.2	90.6	91.2	91.2	91.5	91.5	91.5	91.5	91.5	91.5	91.5
IV 2000	44.5	62.4	68.3	82.6	89.3	90.3	93.6	94.4	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 1800	44.5	62.5	68.4	83.1	90.0	90.9	94.3	95.1	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 1500	44.8	63.3	69.4	84.5	92.0	93.0	96.5	97.4	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 1200	44.8	63.3	69.4	84.7	92.3	93.3	97.0	97.9	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 1000	44.8	63.5	69.5	84.8	92.5	93.5	97.1	98.2	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 900	44.8	63.5	69.5	84.8	92.5	93.5	97.3	98.4	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 800	44.8	63.5	69.5	85.0	92.7	93.6	97.4	98.7	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 700	44.8	63.5	69.5	85.2	92.8	93.8	97.6	98.9	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.7
IV 600	44.8	63.5	69.5	85.2	92.8	93.8	97.6	99.0	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8
IV 500	44.8	63.5	69.5	85.2	92.8	93.8	97.6	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	44.8	63.5	69.5	85.2	92.8	93.8	97.6	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	44.8	63.5	69.5	85.2	92.8	93.8	97.6	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	44.8	63.5	69.5	85.2	92.8	93.8	97.6	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	44.8	63.5	69.5	85.2	92.8	93.8	97.6	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	44.8	63.5	69.5	85.2	92.8	93.8	97.6	99.2	99.5	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 627

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

100265 BAD KREUNACH, DL

73-A2

AMS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY, STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥1000	24.8	34.2	35.5	39.5	47.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
900	30.2	41.5	42.8	48.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
800	30.4	41.7	43.0	48.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
700	30.4	41.7	43.0	48.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
600	30.6	41.8	43.1	48.4	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
500	31.4	42.8	44.1	49.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
400	34.2	45.8	47.1	53.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
300	35.8	47.9	49.2	56.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
200	40.0	53.1	54.4	62.7	64.4	64.4	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
100	41.7	54.7	56.0	64.4	66.0	66.0	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
50	41.8	54.9	56.2	64.5	66.2	66.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
25	44.4	58.8	60.1	68.6	70.3	70.3	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
10	45.3	60.0	61.4	70.1	71.7	71.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
5	49.0	64.7	66.2	75.0	77.3	77.3	77.9	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
2	51.6	68.8	70.3	80.2	82.5	82.5	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
1	57.7	76.5	77.9	89.7	92.5	92.5	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
0.5	59.3	78.3	79.7	91.5	94.6	94.6	95.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
0.2	60.0	79.9	81.9	93.8	97.5	97.5	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.1	60.0	79.9	81.9	93.8	97.5	97.5	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.05	60.0	80.2	82.2	94.3	98.2	98.2	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.02	60.0	80.2	82.2	94.3	98.2	98.2	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0.01	60.1	80.4	82.4	94.4	98.4	98.4	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
0.005	60.1	80.4	82.4	94.4	98.4	98.4	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
0.002	60.1	80.4	82.4	94.4	98.4	98.4	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.001	60.1	80.4	82.4	94.4	98.4	98.4	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.0005	60.1	80.4	82.4	94.4	98.4	98.4	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.0002	60.1	80.4	82.4	94.4	98.4	98.4	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.0001	60.1	80.4	82.4	94.4	98.4	98.4	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.00005	60.1	80.4	82.4	94.4	98.4	98.4	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.00002	60.1	80.4	82.4	94.4	98.4	98.4	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
0.00001	60.1	80.4	82.4	94.4	98.4	98.4	99.2	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 612

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265

BAD KREUZNACH DL

73-82

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	OR (HUNDREDS OF METERS)															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	28.3	36.9	38.0	41.4	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
≥ 20000	34.0	45.6	46.9	51.2	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
≥ 18000	34.4	46.0	47.2	51.5	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 16000	34.4	46.0	47.2	51.5	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 14000	34.8	46.3	47.8	52.0	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 12000	37.8	49.4	50.8	55.1	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥ 10000	39.8	52.0	53.7	58.5	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 9000	42.8	56.9	58.5	63.6	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 8000	47.6	62.9	64.5	70.8	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 7000	49.7	65.1	66.7	72.9	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 6000	49.7	65.1	66.7	72.9	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 5000	52.0	67.7	69.3	75.8	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 4500	53.1	69.0	70.6	77.0	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
≥ 4000	57.6	74.3	76.3	83.1	84.1	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 3500	59.9	77.2	79.3	86.3	87.3	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 3000	66.7	84.8	87.3	94.3	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 2500	67.4	85.7	88.2	95.4	96.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 2000	68.1	87.5	90.4	97.7	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1800	68.1	87.5	90.4	97.7	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1500	68.1	87.5	90.4	97.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200	68.1	87.5	90.4	97.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	68.1	87.5	90.4	97.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	68.1	87.5	90.4	97.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	68.1	87.5	90.4	97.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	68.1	87.5	90.4	97.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	68.1	87.5	90.4	97.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	68.1	87.5	90.4	97.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	68.1	87.5	90.4	97.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	68.1	87.5	90.4	97.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	68.1	87.5	90.4	97.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	68.1	87.5	90.4	97.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	68.1	87.5	90.4	97.9	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 561

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

16265
STATION

BAD KREUZNACH DL
STATION NAME

73-82
YEAR

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

3600-0800
TIME PERIOD

CEILING FEET		VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
		≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
NO. CEILING	FEET	GT90	EQ90	GE80	GE60	GE40	GE32	GE24	GE20	GE16	GE12	GE10	GE08	GE05	GE04	GE03	GE02
27000		11.0	15.5	18.0	29.3	32.0	32.3	36.0	36.3	37.2	37.2	37.5	37.8	38.4	38.4	38.7	38.7
21800		14.9	19.8	23.2	36.6	39.9	40.2	44.2	45.1	45.1	46.3	46.6	47.0	47.9	47.9	48.2	48.5
21400		15.2	20.1	23.5	36.9	40.2	40.5	44.5	45.4	45.4	46.6	46.6	47.0	47.3	48.2	48.2	48.5
21000		15.2	20.4	24.7	38.1	41.5	41.8	45.7	46.6	46.6	47.9	47.9	48.2	48.5	49.4	49.4	49.7
20600		15.5	20.7	25.6	39.0	42.4	42.7	46.6	47.6	47.6	48.8	48.8	49.1	49.4	50.3	50.3	50.6
20200		15.9	21.6	26.5	41.2	44.5	44.8	49.1	50.0	50.0	51.2	51.2	51.5	51.8	52.7	52.7	53.0
19800		16.5	22.6	28.0	42.7	47.0	47.3	51.5	52.7	52.7	54.0	54.0	54.3	54.6	55.5	55.5	55.8
19400		18.3	25.0	30.5	46.3	50.9	51.8	56.1	57.3	57.3	58.5	58.5	58.8	59.1	60.1	60.1	60.4
19000		18.3	25.6	31.1	48.8	54.0	55.5	59.8	61.0	61.0	63.1	63.1	63.4	63.7	64.6	64.6	64.9
18600		18.3	25.6	31.1	48.8	54.0	55.5	59.8	61.0	61.0	63.1	63.1	63.4	63.7	64.6	64.6	64.9
18200		18.9	27.7	33.2	52.1	57.9	59.5	63.7	65.2	65.2	67.4	67.4	67.7	68.0	68.9	68.9	69.2
17800		19.5	28.7	34.1	53.0	58.8	60.4	64.6	66.2	66.2	68.9	68.9	69.2	69.5	70.4	70.4	70.7
17400		20.4	30.2	36.0	55.5	61.3	62.8	67.1	68.6	68.6	71.3	71.3	71.6	72.0	72.9	72.9	73.2
17000		21.0	30.8	37.2	57.3	63.1	64.9	70.1	72.3	72.3	75.0	75.0	75.3	75.6	76.5	76.5	76.8
16600		23.5	34.8	41.2	61.9	68.9	71.0	77.1	80.5	80.8	83.5	83.5	83.8	84.1	85.1	85.1	85.4
16200		25.0	37.2	43.6	64.3	71.3	73.5	80.8	84.1	84.5	87.2	87.2	87.5	87.8	88.7	88.7	89.0
15800		25.6	38.1	44.8	65.5	72.6	74.7	82.0	85.4	85.7	88.4	88.4	88.7	89.0	89.9	89.9	90.2
15400		26.8	39.3	46.0	66.8	73.8	75.9	83.2	86.6	86.9	89.6	89.6	89.9	90.2	91.2	91.2	91.5
15000		27.1	39.9	46.6	67.7	74.7	76.8	84.1	87.5	87.8	90.5	90.5	90.9	91.2	92.1	92.1	92.4
14600		27.7	40.5	47.3	68.3	75.3	77.4	84.8	88.1	88.4	91.2	91.2	91.5	91.8	92.7	92.7	93.0
14200		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
13800		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
13400		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
13000		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
12600		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
12200		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
11800		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
11400		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
11000		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
10600		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
10200		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
9800		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
9400		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
9000		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
8600		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
8200		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
7800		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
7400		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
7000		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
6600		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
6200		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
5800		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
5400		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
5000		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
4600		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
4200		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
3800		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
3400		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
3000		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
2600		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
2200		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
1800		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
1400		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
1000		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
600		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
200		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5
0		27.7	40.9	47.6	69.2	76.2	78.4	86.3	89.6	89.9	92.7	92.7	93.0	93.3	94.2	94.2	94.5

TOTAL NUMBER OF OBSERVATIONS 328

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

126265 BAD KREUZNACH DE

73-82

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

-900-1100

ELEVATION FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
1000	11.7	18.6	20.0	29.1	33.5	34.3	36.6	37.8	38.0	38.2	38.2	38.2	38.2	38.2	38.2	38.2
900	14.9	22.4	24.0	34.3	39.2	40.0	42.4	44.4	44.4	44.6	44.6	44.6	44.6	44.6	44.6	44.6
800	14.9	22.4	24.0	34.3	39.2	40.0	42.4	44.4	44.4	44.6	44.6	44.6	44.6	44.6	44.6	44.6
700	15.6	23.2	25.1	35.4	40.2	41.0	43.6	45.9	46.1	46.3	46.3	46.3	46.3	46.3	46.3	46.3
600	17.6	25.3	27.1	37.6	42.4	43.2	45.9	48.1	48.3	48.5	48.5	48.5	48.5	48.5	48.5	48.5
500	19.0	27.3	29.1	41.4	47.1	47.9	50.5	52.7	52.9	53.1	53.1	53.1	53.1	53.1	53.1	53.1
400	20.6	29.5	31.5	44.6	50.5	51.3	54.3	56.6	56.8	57.0	57.0	57.0	57.0	57.0	57.0	57.0
300	23.2	32.5	34.9	49.1	55.8	56.8	60.2	62.4	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8
200	23.8	33.3	35.8	51.1	58.8	60.2	64.0	66.7	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3
100	24.6	34.7	37.2	53.5	61.2	62.6	66.5	69.1	69.3	69.7	69.7	69.7	69.7	69.7	69.7	69.7
0	25.3	35.6	38.0	54.5	62.2	63.6	67.5	70.1	70.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7
1000	27.9	38.4	41.8	58.8	66.9	68.3	72.5	75.4	75.6	76.0	76.0	76.0	76.0	76.0	76.0	76.0
900	29.3	40.8	43.8	61.8	70.3	71.7	76.2	79.2	79.4	79.8	79.8	79.8	79.8	79.8	79.8	79.8
800	31.9	44.8	48.1	66.7	75.6	77.4	83.0	87.1	87.3	87.9	87.9	87.9	87.9	87.9	87.9	87.9
700	33.5	46.9	50.1	68.7	78.0	79.8	85.5	89.9	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7
600	34.7	48.1	51.3	69.9	79.2	81.0	86.9	91.3	91.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
500	34.9	48.7	52.1	70.7	80.0	81.8	87.9	92.3	92.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
400	35.8	49.7	53.1	71.7	81.0	82.8	88.9	93.3	93.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
300	36.4	50.7	54.1	72.9	82.2	84.0	90.3	94.7	94.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0
200	36.4	50.7	54.1	72.9	82.2	84.0	90.3	94.7	94.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0
100	36.4	50.7	54.1	72.9	82.2	84.0	90.3	94.7	94.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0
0	36.4	50.7	54.1	72.9	82.2	84.0	90.3	94.7	94.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0
1000	36.4	50.7	54.1	72.9	82.2	84.0	90.5	95.2	95.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0
900	36.4	50.7	54.1	72.9	82.2	84.0	90.5	95.2	95.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0
800	36.4	50.7	54.1	72.9	82.2	84.0	90.5	95.2	95.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0
700	36.4	50.7	54.1	72.9	82.2	84.0	90.5	95.2	95.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0
600	36.4	50.7	54.1	72.9	82.2	84.0	90.5	95.2	95.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0
500	36.4	50.7	54.1	72.9	82.2	84.0	90.5	95.2	95.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0
400	36.4	50.7	54.1	72.9	82.2	84.0	90.5	95.2	95.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0
300	36.4	50.7	54.1	72.9	82.2	84.0	90.5	95.2	95.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0
200	36.4	50.7	54.1	72.9	82.2	84.0	90.5	95.2	95.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0
100	36.4	50.7	54.1	72.9	82.2	84.0	90.5	95.2	95.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0
0	36.4	50.7	54.1	72.9	82.2	84.0	90.5	95.2	95.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0

TOTAL NUMBER OF OBSERVATIONS 895

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

16265 BAD KREUZNACH DL

73-82

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1230-1400

		VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
CEILING	FEET	GT 900	EC 900	GE 800	GF 600	GF 480	GE 400	GF 320	GE 240	GE 200	GF 160	GF 120	GF 100	GF 80	GF 60	GF 40	GF 20
2000	2000	16.4	21.5	22.7	31.3	35.2	35.2	35.6	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
2000	1800	20.9	26.8	28.2	37.4	41.7	41.7	42.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
2000	1600	20.9	26.8	28.2	37.4	41.7	41.7	42.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
2000	1400	21.7	27.6	29.4	39.1	43.6	43.6	44.6	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
2000	1200	21.7	27.6	29.4	39.5	44.0	44.0	45.2	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
2000	1000	23.9	30.5	32.7	43.8	48.5	48.5	49.7	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
2000	800	25.6	32.1	35.0	46.2	50.9	50.9	52.1	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
2000	600	27.4	35.2	38.4	50.7	55.6	55.6	56.9	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
2000	400	28.4	36.6	39.9	53.0	58.3	58.3	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
2000	200	28.6	36.8	40.1	53.4	58.7	58.7	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
2000	0	29.7	38.7	41.9	55.8	61.1	61.1	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
1800	2000	32.3	42.3	45.6	59.5	64.8	64.8	66.5	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
1800	1800	35.4	46.6	49.9	64.2	69.5	69.5	71.2	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
1800	1600	39.1	51.1	54.6	70.1	75.5	75.5	77.1	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
1800	1400	43.8	59.3	63.0	79.3	85.1	85.1	87.3	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
1800	1200	47.0	63.4	67.1	83.8	90.2	90.4	92.8	93.7	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1
1800	1000	48.1	65.2	68.9	85.7	92.0	92.2	94.7	95.5	95.5	95.9	95.9	95.9	95.9	95.9	95.9	95.9
1800	800	48.5	65.6	69.3	86.1	92.4	92.6	95.1	95.9	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5
1800	600	48.9	66.3	69.9	86.9	93.3	93.7	96.1	96.9	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5
1800	400	49.3	67.1	70.8	87.7	94.1	94.5	96.9	97.8	98.0	98.4	98.4	98.4	98.4	98.4	98.4	98.4
1800	200	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1800	0	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1600	2000	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1600	1800	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1600	1600	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1600	1400	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1600	1200	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1600	1000	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1600	800	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1600	600	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1600	400	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1600	200	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1600	0	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1400	2000	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1400	1800	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1400	1600	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1400	1400	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1400	1200	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1400	1000	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1400	800	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1400	600	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1400	400	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1400	200	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
1400	0	49.3	67.1	71.0	87.9	94.7	95.1	97.5	98.4	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS 489

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

156265 BAD KREUZNACH DL

73-82

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0
NO FADING ≥ 2500	20.6	28.7	29.4	34.4	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
≥ 1800	26.8	36.8	37.5	44.5	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 1400	26.8	36.8	37.5	44.5	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 1200	27.0	37.1	37.7	45.6	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 1000	28.7	38.8	39.5	47.6	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
≥ 800	32.0	43.4	44.3	53.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
≥ 600	33.3	44.7	45.6	54.8	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
≥ 400	36.8	48.9	49.8	60.5	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 200	37.9	50.2	51.1	62.7	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
≥ 100	38.2	50.7	51.8	63.4	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 50	41.2	54.4	55.7	67.5	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
≥ 25	43.2	56.8	58.1	70.0	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 10	45.8	61.8	63.4	75.9	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 5	48.0	65.6	67.3	80.0	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 2.5	53.7	73.5	76.1	89.5	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1.5	56.6	77.0	79.6	94.1	96.1	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥ 1	57.9	78.3	80.9	95.4	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 0.5	57.9	78.3	80.9	95.4	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 0.25	58.3	78.7	81.4	95.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 0.1	59.0	79.4	82.0	96.7	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 0.05	59.0	79.6	82.5	97.1	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.025	59.0	79.6	82.5	97.1	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0.01	59.0	79.6	82.5	97.1	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 0	59.0	79.6	82.5	97.1	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 856

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-6265

BAD KREUZNACH DL

73-82

ACT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING FEET		VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
		≥10	≥5	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.015	≥0.01	≥0.005
N	27000	6.6	7.6	9.1	12.9	14.0	14.7	15.2	15.2	15.5	16.2	16.2	16.2	17.3	17.5	18.0	
	25000	7.6	9.1	10.7	15.0	16.0	16.8	17.5	17.5	18.0	19.3	19.5	19.5	20.8	21.3	21.8	
N	18000	8.1	9.6	11.2	15.5	16.5	17.3	18.0	18.0	18.5	19.8	20.1	20.1	21.3	21.8	22.3	
	16000	8.1	9.6	11.2	15.5	16.5	17.3	18.0	18.0	18.5	19.8	20.1	20.1	21.3	21.8	22.3	
N	14000	8.1	9.6	11.2	15.7	16.8	17.5	18.3	18.3	18.8	20.1	20.3	20.3	21.6	22.1	22.6	
	12000	8.4	9.9	11.9	16.5	17.8	18.5	19.3	19.3	20.1	21.3	21.6	21.6	22.8	23.4	23.9	
N	10000	8.9	10.4	12.7	17.5	19.3	20.1	20.8	20.8	21.6	22.8	23.4	23.4	24.6	25.1	25.6	
	9000	9.9	11.4	13.7	18.8	20.6	21.3	22.1	22.1	22.8	24.1	24.6	24.6	25.9	26.4	27.0	
N	8000	10.4	12.7	15.2	21.8	23.6	24.4	25.6	26.4	26.4	27.4	28.7	29.2	29.2	30.5	31.7	32.0
	7000	10.4	12.9	15.7	22.8	24.6	25.4	26.6	27.4	27.4	28.4	29.7	30.2	30.2	31.5	32.0	33.0
N	6000	10.4	13.2	16.0	23.4	25.1	25.9	27.2	27.9	27.9	29.2	30.5	31.0	31.0	32.2	32.7	33.8
	5000	10.9	14.0	16.8	24.4	26.1	26.9	28.2	28.9	28.9	30.5	31.7	32.2	32.2	33.5	34.0	35.0
N	4500	11.2	14.2	17.8	25.4	27.2	27.9	29.2	29.9	29.9	31.5	32.7	33.2	33.2	34.5	35.0	36.0
	4000	13.2	16.8	21.3	30.5	33.2	34.0	35.8	36.5	36.5	38.6	39.8	40.8	40.8	42.1	43.4	
N	3500	14.0	18.0	23.4	33.5	36.8	37.6	39.6	40.4	40.4	42.4	43.7	44.2	44.2	45.4	45.9	47.2
	3000	18.0	22.8	28.4	40.1	44.2	45.2	48.2	50.0	50.5	52.8	54.1	54.6	54.6	55.8	56.3	57.4
N	2500	20.6	26.4	32.7	44.7	49.0	50.3	54.1	56.3	56.9	60.2	61.4	62.2	62.4	63.7	64.2	65.5
	2000	21.8	27.7	34.5	48.2	52.5	53.8	57.9	61.2	61.7	66.0	67.3	68.0	68.3	69.5	70.1	71.3
N	1800	23.1	29.2	36.0	49.7	54.1	55.3	59.4	62.7	63.2	67.5	68.8	69.5	69.8	71.1	71.6	72.8
	1500	24.4	30.5	37.3	51.3	55.6	56.9	61.9	65.2	65.7	71.1	72.3	73.4	73.6	75.4	75.9	77.2
N	1200	24.6	31.2	38.1	53.3	58.1	59.4	64.5	68.3	68.8	74.1	75.4	76.4	76.6	78.4	78.9	80.2
	1000	24.6	31.2	38.1	54.3	59.1	60.4	65.5	70.1	70.8	76.9	78.7	79.7	79.9	81.7	82.2	83.5
N	900	24.6	31.2	38.1	54.3	59.1	60.4	65.5	70.3	71.1	77.7	79.4	80.5	80.7	82.5	83.0	84.3
	800	24.6	31.2	38.1	54.6	59.4	60.7	65.7	70.8	71.8	79.9	81.7	82.7	83.2	85.5	86.0	87.3
N	700	24.6	31.2	38.1	54.6	59.4	60.7	65.7	70.8	72.1	80.2	82.0	83.0	83.5	85.8	86.3	87.6
	600	24.6	31.2	38.1	54.6	59.4	60.7	65.7	70.8	72.1	80.7	82.5	83.5	84.0	86.3	86.8	88.1
N	500	24.6	31.2	38.1	54.6	59.4	60.7	66.0	71.3	72.6	81.5	83.2	84.3	84.8	87.1	87.6	89.1
	400	24.6	31.2	38.1	54.6	59.4	60.7	66.0	71.3	72.6	82.2	84.8	86.0	87.3	90.6	91.9	94.4
N	300	24.6	31.2	38.1	54.6	59.4	60.7	66.0	71.3	72.6	82.5	85.0	86.3	88.3	92.1	93.4	95.9
	200	24.6	31.2	38.1	54.6	59.4	60.7	66.0	71.3	72.6	82.5	85.0	86.3	88.3	92.4	94.4	97.7
N	100	24.6	31.2	38.1	54.6	59.4	60.7	66.0	71.3	72.6	82.5	85.0	86.3	88.3	92.4	94.4	99.2
	0	24.6	31.2	38.1	54.6	59.4	60.7	66.0	71.3	72.6	82.5	85.0	86.3	88.3	92.4	94.4	100.0

TOTAL NUMBER OF OBSERVATIONS 128

USAF ETAC FORM 101-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265

BAD KREUNACH DL

73-82

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

900-1100

OR (HUNDREDS OF METERS)																	
	6T9.1	6E9.0	6E8.0	6E6.4	6E4.8	6E4.0	6E3.2	6E2.4	6E2.0	6E1.6	6E1.2	6E1.0	6E0.8	6E0.5	6E0.4	6E0	
1000	6.6	8.2	9.4	12.6	14.3	14.6	16.7	16.7	16.8	17.3	17.3	17.3	17.3	17.7	17.7	17.8	
900	8.9	10.8	12.0	15.8	18.5	18.9	20.5	21.4	21.5	22.1	22.1	22.1	22.1	22.4	22.4	22.6	
800	9.1	10.9	12.1	16.3	19.0	19.4	21.0	21.9	22.1	22.6	22.6	22.6	22.6	22.9	22.9	23.1	
700	9.1	10.9	12.1	16.3	19.0	19.4	21.0	21.9	22.1	22.6	22.6	22.6	22.6	22.9	22.9	23.1	
600	9.1	10.9	12.1	16.3	19.2	19.7	21.4	22.2	22.4	23.1	23.1	23.1	23.1	23.4	23.4	23.6	
500	9.1	11.1	12.5	17.0	21.0	20.5	22.2	23.1	23.4	24.1	24.1	24.1	24.1	24.4	24.4	24.6	
400	10.1	12.5	14.0	18.9	21.9	22.4	24.1	25.3	25.4	26.4	26.4	26.4	26.4	26.8	26.8	26.9	
300	11.1	13.6	15.3	20.7	23.7	24.2	25.9	27.1	27.4	28.3	28.3	28.3	28.3	28.6	28.6	28.8	
200	12.3	15.8	17.9	23.6	26.6	27.1	29.0	30.3	30.8	31.5	31.6	31.8	31.8	32.2	32.2	32.3	
100	12.8	16.5	18.5	24.6	27.6	28.1	30.0	31.3	32.0	32.7	32.8	33.0	33.0	33.3	33.3	33.5	
50	12.8	16.5	18.5	24.6	27.9	28.5	30.3	31.6	32.3	33.0	33.2	33.3	33.3	33.7	33.7	33.8	
25	13.8	17.8	19.9	26.3	29.8	30.5	32.5	34.8	35.5	36.4	36.5	36.7	36.7	37.0	37.0	37.2	
10	15.2	19.2	21.2	27.8	31.5	32.2	34.3	36.7	37.4	38.2	38.4	38.6	38.6	38.9	38.9	39.1	
5	16.0	20.2	23.1	30.1	34.8	35.7	37.9	40.2	40.9	41.9	42.1	42.3	42.3	42.6	42.6	42.8	
2	17.5	22.9	26.3	33.7	38.4	39.2	41.6	43.9	44.6	45.6	45.8	46.0	46.0	46.3	46.3	46.5	
1	22.4	29.6	33.7	43.1	48.3	49.3	52.9	56.6	57.9	59.1	59.4	59.6	59.6	59.9	59.9	60.1	
0.5	25.1	33.3	37.7	47.6	53.5	54.7	58.4	62.6	64.7	66.0	66.2	66.3	66.5	66.8	66.8	67.0	
0.25	26.9	36.2	41.1	51.0	56.9	58.1	62.6	67.2	69.7	71.0	71.2	71.4	71.5	71.9	71.9	72.1	
0.1	27.9	37.4	42.6	53.0	58.9	60.1	64.8	69.5	71.0	73.4	73.6	73.7	73.9	74.2	74.2	74.4	
0.05	29.1	38.7	44.1	55.1	60.9	62.1	67.5	72.2	73.7	76.1	76.3	76.4	76.6	76.9	76.9	77.1	
0.025	29.3	39.1	44.4	55.9	62.0	63.3	68.9	74.4	75.9	79.5	79.8	80.0	80.1	80.5	80.5	80.6	
0.01	29.3	39.1	44.4	56.9	63.5	65.0	71.2	77.4	79.7	83.3	83.7	84.0	84.2	84.5	84.5	84.7	
0.005	29.3	39.1	44.4	56.9	63.8	65.3	71.7	78.3	79.8	84.3	84.7	85.0	85.2	85.5	85.5	85.7	
0.0025	29.3	39.1	44.6	57.4	64.3	65.8	72.2	79.3	80.8	84.0	84.4	84.7	84.9	85.2	85.2	85.9	
0.001	29.3	39.1	44.6	57.4	64.3	65.8	72.2	80.6	82.7	88.0	88.4	88.7	88.9	89.7	89.7	89.9	
0.0005	29.3	39.1	44.6	57.4	64.3	65.8	72.2	81.0	83.2	89.1	89.4	89.7	89.9	90.7	90.7	90.9	
0.00025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	90.1	90.4	90.7	90.9	91.9	91.9	92.3	
0.0001	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.1	91.4	91.6	92.1	92.6	92.6	92.9	
0.00005	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.000025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.00001	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.000005	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.0000025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.000001	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.0000005	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.00000025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.0000001	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.00000005	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.000000025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.00000001	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.000000005	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.0000000025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.000000001	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.0000000005	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.00000000025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.0000000001	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.00000000005	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.000000000025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.00000000001	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.000000000005	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.0000000000025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.000000000001	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.0000000000005	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.00000000000025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.0000000000001	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.00000000000005	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.000000000000025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.00000000000001	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.000000000000005	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.0000000000000025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.000000000000001	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.0000000000000005	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.00000000000000025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.0000000000000001	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.00000000000000005	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.000000000000000025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.00000000000000001	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.000000000000000005	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.0000000000000000025	29.3	39.1	44.6	57.4	64.3	65.8	72.7	81.6	84.7	91.4	91.6	92.1	92.6	93.1	93.1	93.3	
0.0000000000000																	

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265 BAD KREUZNACH DL

73-82

067

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1220-1400

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	≥ 10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. CEILING	GT90	FO90	GE90	GE60	GE48	GE40	GE32	GE24	GE20	GE16	GE12	GE10	GE08	GE05	GE04	GE0
≥ 20000	9.7	12.8	13.3	17.0	19.1	19.3	20.1	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
≥ 18000	10.9	14.3	14.8	19.9	22.5	22.7	23.5	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
≥ 16000	11.8	15.2	15.7	20.8	23.3	23.7	24.7	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
≥ 14000	12.1	15.5	16.0	21.1	23.9	24.2	25.2	26.1	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
≥ 12000	12.1	15.5	16.0	21.3	24.0	24.5	25.7	26.6	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
≥ 10000	13.1	16.9	17.4	22.8	26.1	26.6	27.8	28.6	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
≥ 9000	14.0	18.1	18.6	24.7	27.9	28.4	29.6	30.5	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
≥ 8000	16.7	21.8	22.3	29.6	33.0	33.6	34.8	35.6	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
≥ 7000	17.0	22.3	23.0	30.3	34.1	34.6	35.8	36.6	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
≥ 6000	17.0	22.3	23.0	30.3	34.1	34.6	35.8	36.8	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 5000	18.1	24.2	24.9	32.5	37.1	37.6	39.7	40.0	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
≥ 4500	18.7	25.2	25.9	33.6	38.3	38.8	40.2	41.2	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
≥ 4000	21.6	28.4	29.5	37.1	42.6	43.1	44.4	45.7	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
≥ 3500	23.7	31.7	32.9	41.6	47.5	48.2	49.9	51.1	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 3000	30.7	40.4	41.6	51.6	59.1	60.0	62.0	64.1	64.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 2500	33.7	45.0	46.5	57.4	65.9	67.0	69.5	71.7	71.9	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 2000	37.3	49.7	51.8	63.0	73.1	74.3	77.0	79.2	79.4	79.7	79.7	79.7	79.7	79.7	79.7	79.7
≥ 1800	38.5	51.1	53.2	64.9	75.1	76.3	79.0	81.3	81.4	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥ 1500	39.9	52.8	54.9	67.3	77.5	78.7	81.9	84.2	84.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 1200	40.5	54.0	56.2	69.2	79.9	81.1	84.5	87.6	87.9	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 1000	40.5	54.2	56.4	70.0	81.1	82.3	86.4	89.6	89.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 900	40.5	54.2	56.4	70.0	81.1	82.5	86.9	90.1	90.5	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 800	40.7	54.3	56.6	70.2	81.6	83.0	88.9	92.7	93.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 700	40.7	54.3	56.6	70.4	81.8	83.1	89.4	93.5	93.9	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 600	40.7	54.3	56.6	70.4	81.8	83.3	89.9	94.9	95.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8
≥ 500	40.7	54.3	56.6	70.4	81.8	83.3	90.1	95.4	95.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 400	40.7	54.3	56.6	70.4	81.8	83.3	90.1	95.4	95.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	40.7	54.3	56.6	70.4	81.8	83.3	90.1	95.4	95.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 200	40.7	54.3	56.6	70.4	81.8	83.3	90.1	95.4	95.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 100	40.7	54.3	56.6	70.4	81.8	83.3	90.1	95.4	95.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 0	40.7	54.3	56.6	70.4	81.8	83.3	90.1	95.4	95.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 587

USAF ETAC FORM 0-14-5 (DL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265

BAD KREUZNACH DL

73-82

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
NO CEILING	16.3	21.5	22.0	24.1	25.7	26.2	27.0	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
≥ 20000	18.6	24.5	25.0	28.5	31.6	32.1	33.3	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
≥ 18000	19.3	25.5	26.1	29.6	32.6	33.2	34.4	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
≥ 16000	19.3	25.5	26.1	29.6	32.6	33.2	34.4	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
≥ 14000	19.5	25.7	26.2	29.8	32.8	33.3	34.6	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
≥ 12000	19.7	25.9	26.4	30.1	33.2	33.7	34.9	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥ 10000	21.3	28.4	28.9	33.3	37.8	38.3	39.9	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
≥ 9000	22.9	30.3	30.9	35.3	40.1	40.6	42.2	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 8000	25.0	33.0	33.5	39.4	44.3	45.0	46.8	47.2	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 7000	25.4	33.7	34.2	40.1	45.9	46.6	48.4	48.8	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
≥ 6000	25.4	33.7	34.2	40.1	46.3	47.0	48.8	49.1	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 5000	26.8	35.1	35.8	42.2	48.8	49.5	51.2	51.6	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 4500	28.2	36.7	37.6	44.9	51.4	52.1	53.9	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 4000	31.6	40.6	41.5	49.5	56.0	56.7	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 3500	34.0	43.8	44.7	53.0	59.6	60.3	62.4	62.9	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 3000	40.6	51.6	52.5	61.9	68.8	69.5	71.8	72.5	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 2500	44.5	56.2	57.3	67.4	74.5	75.2	77.7	78.4	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 2000	47.3	59.6	60.6	71.5	79.8	80.9	83.3	84.0	84.6	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 1800	47.3	59.8	60.8	71.6	80.0	81.0	83.5	84.2	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9
≥ 1500	49.8	63.1	64.2	75.5	83.9	84.9	87.6	88.3	88.8	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1200	50.5	64.0	65.2	77.0	85.3	86.3	89.5	91.0	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1000	50.5	64.0	65.6	77.7	86.0	87.1	90.6	92.6	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 900	50.5	64.0	65.6	77.7	86.0	87.1	91.0	92.9	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 800	50.7	64.2	65.8	77.8	87.1	88.1	92.6	95.4	96.3	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 700	50.7	64.2	65.8	77.8	87.1	88.1	92.6	96.1	97.0	97.9	98.0	98.2	98.2	98.2	98.2	98.2
IV 600	50.7	64.2	65.8	77.8	87.1	88.1	92.7	96.5	97.3	98.4	98.6	98.8	98.8	98.8	98.8	98.8
IV 500	50.7	64.2	65.8	77.8	87.1	88.1	92.7	96.5	97.5	98.6	98.8	98.9	98.9	98.9	98.9	98.9
IV 400	50.7	64.2	65.8	77.8	87.1	88.1	92.7	96.5	97.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0
IV 300	50.7	64.2	65.8	77.8	87.1	88.1	92.7	96.5	97.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0
IV 200	50.7	64.2	65.8	77.8	87.1	88.1	92.7	96.5	97.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0
IV 100	50.7	64.2	65.8	77.8	87.1	88.1	92.7	96.5	97.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0
IV 0	50.7	64.2	65.8	77.8	87.1	88.1	92.7	96.5	97.5	99.6	99.8	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 568

USAF ETAC FORM 101-84 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265

BAD KREUZNACH DL

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

6000-0000

CEILING FEET	VISIBILITY: STATUTE MILES																OR (HUNDREDS OF METERS)			
	≥10	≥8	≥6	≥4	≥3	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
≥10000	8.7	12.0	12.8	16.6	17.1	17.1	17.1	17.7	17.9	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.5
≥8000	10.1	13.3	14.1	18.8	19.3	19.3	19.8	20.4	20.7	20.9	20.9	20.9	20.9	20.9	20.9	20.9	21.2	21.5	21.5	21.5
≥6000	10.1	13.3	14.1	18.8	19.6	19.8	20.4	20.9	21.2	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.7	22.0	22.0	22.0
≥4000	10.1	13.3	14.1	19.0	19.8	20.1	20.7	21.2	21.5	21.7	21.7	21.7	21.7	21.7	21.7	21.7	22.0	22.3	22.3	22.3
≥2000	10.1	13.3	14.1	19.0	19.8	20.1	20.7	21.2	21.5	21.7	21.7	21.7	21.7	21.7	21.7	21.7	22.0	22.3	22.3	22.3
≥1000	10.3	13.9	15.5	20.7	21.5	21.7	22.3	22.8	23.1	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.6	23.9	23.9	23.9
≥900	10.6	14.1	15.8	20.9	21.7	22.0	22.6	23.1	23.4	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.9	24.2	24.2	24.2
≥800	11.4	15.5	17.1	23.1	23.9	24.2	24.7	25.3	25.5	25.8	25.8	25.8	25.8	25.8	25.8	25.8	26.1	26.4	26.4	26.4
≥700	12.8	17.1	18.8	24.7	25.8	26.1	26.6	27.2	27.4	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.8	29.1	29.1	29.1
≥6000	12.8	17.1	18.8	24.7	25.8	26.1	26.6	27.2	27.4	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.8	29.1	29.1	29.1
≥5000	13.3	18.8	20.7	27.4	28.5	28.8	29.3	29.9	30.2	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.5	31.8	31.8	31.8
≥4500	13.9	19.3	21.2	28.3	29.3	29.6	30.2	30.7	31.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.3	32.6	32.6	32.6
≥4000	15.2	21.7	24.7	34.0	35.3	35.6	36.1	36.7	37.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.3	38.6	38.6	38.6
≥3500	17.1	23.9	27.2	37.2	38.6	39.1	40.2	40.8	41.0	42.1	42.4	42.4	42.4	42.4	42.4	42.4	42.7	42.9	42.9	42.9
≥3000	20.9	29.9	34.5	49.2	51.4	52.4	54.9	55.4	55.7	57.3	57.6	57.6	57.6	57.6	57.6	57.6	57.9	58.2	58.2	58.2
≥2500	22.8	32.9	38.3	53.8	56.3	57.3	60.9	61.4	61.7	63.6	64.1	64.1	64.1	64.1	64.1	64.1	64.4	64.7	64.7	64.7
≥2000	27.2	38.0	44.3	61.1	65.5	66.8	72.3	73.1	73.6	75.8	76.6	76.6	76.6	76.6	76.6	76.6	77.2	77.9	77.9	77.9
≥1800	28.0	39.4	45.9	63.6	67.9	69.3	75.0	75.8	76.4	78.5	79.3	79.3	79.3	79.3	79.3	79.3	79.6	79.9	79.9	79.9
≥1500	29.6	41.0	47.6	67.7	72.3	73.9	79.9	81.0	81.8	84.2	85.1	85.1	85.1	85.1	85.1	85.1	85.3	85.9	85.9	85.9
≥1200	29.9	41.6	48.1	69.0	74.5	76.1	82.3	83.4	84.2	86.7	87.5	87.5	87.5	87.5	87.5	87.5	87.8	88.0	88.3	88.3
≥1000	29.9	42.1	48.6	69.6	75.0	76.6	83.7	85.1	85.9	88.3	89.4	89.7	89.7	89.7	89.7	89.7	90.2	90.5	90.5	90.5
≥900	29.9	42.1	48.6	69.6	75.0	76.6	84.0	85.9	86.7	89.4	90.5	90.8	90.8	90.8	90.8	90.8	91.0	91.3	91.6	91.6
≥800	29.9	42.1	48.6	69.6	75.0	76.6	84.0	86.1	87.0	90.5	91.6	91.8	91.8	91.8	91.8	91.8	92.1	92.4	92.7	92.7
≥700	29.9	42.1	48.9	69.8	75.3	76.9	84.2	86.4	87.2	90.8	92.1	92.4	92.4	92.4	92.4	92.4	92.7	92.9	93.2	93.2
≥600	29.9	42.1	48.9	69.8	75.3	76.9	84.5	86.7	87.5	91.8	93.2	93.5	93.5	93.5	93.5	93.5	93.8	94.0	94.3	94.3
≥500	29.9	42.1	48.9	69.8	75.3	76.9	84.5	86.7	87.5	92.1	93.5	93.8	93.8	93.8	93.8	93.8	94.3	94.6	94.9	94.9
≥400	29.9	42.1	48.9	69.8	75.3	76.9	84.5	86.7	87.5	92.1	93.5	93.8	93.8	93.8	93.8	93.8	94.3	94.6	94.9	94.9
≥300	29.9	42.1	48.9	69.8	75.3	76.9	84.5	86.7	87.5	92.1	93.5	93.8	93.8	93.8	93.8	93.8	94.3	94.6	94.9	94.9
≥200	29.9	42.1	48.9	69.8	75.3	76.9	84.5	86.7	87.5	92.1	93.5	93.8	93.8	93.8	93.8	93.8	94.3	94.6	94.9	94.9
≥100	29.9	42.1	48.9	69.8	75.3	76.9	84.5	86.7	87.5	92.1	93.5	93.8	93.8	93.8	93.8	93.8	94.3	94.6	94.9	94.9
≥0	29.9	42.1	48.9	69.8	75.3	76.9	84.5	86.7	87.5	92.1	93.5	93.8	93.8	93.8	93.8	93.8	94.3	94.6	94.9	94.9

TOTAL NUMBER OF OBSERVATIONS 368

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIP WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-6265

BAD KREUZNACH DL

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

900-1100

CEILING FEET	VISIBILITY, STATUTE MILES																OR (HUNDREDS OF METERS)													
	≥10	8	6	4	3	2	1	1/2	1/4	1/8	1/16	1/32	1/64	1/128	1/256	1/512	1/1024	1/2048	1/4096	1/8192	1/16384	1/32768	1/65536	1/131072	1/262144	1/524288	1/1048576	1/2097152	1/4194304	
≥20000	11.4	14.5	15.2	18.8	27.1	70.1	23.5	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	
≥18000	15.0	19.6	20.3	24.6	25.9	25.9	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	
≥16000	15.8	20.3	21.2	25.5	27.4	27.4	27.9	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	
≥14000	15.8	20.3	21.2	25.5	27.4	27.4	27.9	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	
≥12000	15.9	20.5	21.4	25.9	27.7	27.7	28.3	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	
≥10000	17.9	22.6	23.9	28.8	30.6	30.6	31.2	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	
≥9000	19.0	24.3	25.7	30.8	32.8	32.8	33.5	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	
≥8000	20.7	26.4	28.3	34.8	37.0	37.0	37.7	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	
≥7000	21.6	27.5	29.5	36.1	38.4	38.4	39.1	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	
≥6000	21.6	27.5	29.5	36.1	38.4	38.4	39.1	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	
≥5000	22.1	28.1	30.1	37.1	39.5	39.5	40.4	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	
≥4500	23.2	29.7	31.7	38.9	41.3	41.3	42.2	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	
≥4000	24.5	31.9	35.1	44.0	46.4	46.4	47.6	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	
≥3500	26.4	34.6	38.2	49.5	52.2	52.2	53.6	53.8	54.0	54.2	54.3	54.7	55.1	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	
≥3000	29.5	39.3	43.5	58.2	61.2	61.2	63.6	63.9	64.1	64.3	64.5	64.9	65.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	
≥2500	31.5	41.7	46.2	61.1	64.3	64.3	67.6	67.9	68.1	68.3	68.5	68.7	69.0	69.4	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	
≥2000	35.9	46.9	51.8	67.6	71.9	72.5	76.3	77.8	77.5	78.1	78.3	78.6	79.0	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	
≥1800	37.3	48.6	53.4	69.6	73.9	74.5	78.3	79.5	79.7	80.3	80.4	80.8	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	
≥1600	38.9	50.5	55.6	72.5	77.0	77.7	81.5	82.8	83.0	83.5	83.7	84.1	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	
≥1400	39.9	51.4	56.5	73.9	78.6	79.3	84.2	86.4	86.6	87.3	87.5	88.4	88.6	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	
≥1200	39.9	51.4	56.5	74.3	79.2	79.9	85.0	87.3	87.5	88.4	88.6	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	
≥1000	39.9	51.4	56.5	74.3	79.2	79.9	85.0	87.3	87.5	88.4	88.6	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	
≥900	39.9	51.4	56.5	74.3	79.2	79.9	85.0	87.3	87.5	88.4	88.6	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	
≥800	39.9	51.4	56.5	74.3	79.2	79.9	85.0	87.3	87.5	88.4	88.6	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	
≥700	39.9	51.4	56.5	74.3	79.2	79.9	85.0	87.3	87.5	88.4	88.6	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	
≥600	39.9	51.4	56.5	74.3	79.2	79.9	85.0	87.3	87.5	88.4	88.6	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	
≥500	39.9	51.4	56.5	74.3	79.2	79.9	85.0	87.3	87.5	88.4	88.6	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	
≥400	39.9	51.4	56.5	74.3	79.2	79.9	85.0	87.3	87.5	88.4	88.6	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	
≥300	39.9	51.4	56.5	74.3	79.2	79.9	85.0	87.3	87.5	88.4	88.6	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	
≥200	39.9	51.4	56.5	74.3	79.2	79.9	85.0	87.3	87.5	88.4	88.6	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	
≥100	39.9	51.4	56.5	74.3	79.2	79.9	85.0	87.3	87.5	88.4	88.6	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	
≥0	39.9	51.4	56.5	74.3	79.2	79.9	85.0	87.3	87.5	88.4	88.6	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	

TOTAL NUMBER OF OBSERVATIONS 552

USAF ETAC FORM 7-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265

BAD KREUZNACH DL

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	≥8	≥6	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO CEILING	14.2	17.3	17.9	20.0	21.1	21.1	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
≥20000	16.6	20.8	21.5	24.8	26.0	26.0	26.2	26.2	26.2	26.4	26.4	26.4	26.4	26.4	26.4	26.4
≥18000	17.9	22.2	23.0	26.6	28.1	28.1	28.2	28.2	28.2	28.4	28.4	28.4	28.4	28.4	28.4	28.4
≥16000	18.0	22.4	23.1	26.8	28.2	28.2	28.4	28.4	28.4	28.6	28.6	28.6	28.6	28.6	28.6	28.6
≥14000	18.4	23.1	23.9	27.7	29.1	29.1	29.3	29.3	29.3	29.5	29.5	29.5	29.5	29.5	29.5	29.5
≥12000	19.9	24.6	25.3	29.1	30.6	30.6	31.0	31.0	31.0	31.1	31.1	31.1	31.1	31.1	31.1	31.1
≥10000	23.0	27.7	28.4	32.4	34.2	34.2	34.8	34.8	34.8	35.0	35.0	35.0	35.0	35.0	35.0	35.0
≥9000	24.0	29.0	29.7	34.1	36.2	36.1	36.6	36.6	36.6	36.8	36.8	36.8	36.8	36.8	36.8	36.8
≥8000	27.3	33.2	34.2	39.0	41.0	41.2	41.7	41.9	41.9	42.1	42.1	42.1	42.1	42.1	42.1	42.1
≥7000	28.8	34.8	35.9	41.0	43.5	43.7	44.4	44.6	44.6	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥6000	28.8	34.8	35.9	41.0	43.5	43.7	44.4	44.6	44.6	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥5000	29.0	35.2	36.2	41.5	44.1	44.3	45.0	45.2	45.2	45.4	45.4	45.4	45.4	45.4	45.4	45.4
≥4500	29.9	36.1	37.2	43.4	45.9	46.1	46.8	47.0	47.0	47.2	47.2	47.2	47.2	47.2	47.2	47.2
≥4000	32.2	39.7	41.2	48.6	51.4	51.5	52.5	52.6	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8
≥3500	34.6	43.4	45.0	54.1	56.8	57.0	57.9	58.1	58.1	58.3	58.3	58.3	58.3	58.3	58.3	58.3
≥3000	39.2	49.5	51.2	60.8	64.1	64.5	65.8	66.7	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥2500	43.9	54.5	56.3	66.7	70.9	71.4	73.0	74.0	74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥2000	48.3	59.2	61.6	73.2	77.8	78.3	80.7	81.6	81.6	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥1800	49.7	61.2	63.8	75.4	80.0	80.5	82.9	83.8	83.8	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥1500	51.5	63.2	65.8	78.1	82.7	83.2	85.8	86.9	86.9	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥1200	51.5	63.2	65.9	79.6	84.3	84.9	88.3	89.6	89.6	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥1000	51.5	63.2	65.9	79.6	84.3	84.9	88.7	90.2	90.2	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥900	51.5	63.2	65.9	79.6	84.3	84.9	89.3	91.4	91.4	92.9	92.9	93.1	93.1	93.1	93.1	93.1
≥800	51.5	63.2	65.9	79.6	84.3	84.9	89.3	91.4	91.6	93.4	93.4	93.6	93.6	93.6	93.6	93.6
≥700	51.5	63.2	65.9	79.6	85.1	85.6	90.0	92.3	92.5	94.7	94.7	94.9	94.9	94.9	94.9	94.9
≥600	51.5	63.2	65.9	79.6	85.2	85.8	90.2	92.5	92.9	95.3	95.3	95.6	95.6	95.6	95.6	95.6
≥500	51.5	63.2	65.9	79.6	85.6	86.2	90.5	93.3	93.6	96.7	96.7	97.1	97.1	97.1	97.1	97.1
≥400	51.5	63.2	65.9	79.6	85.8	86.3	90.7	93.6	94.2	97.4	97.4	97.8	97.8	97.8	97.8	97.8
≥300	51.5	63.2	65.9	79.6	85.8	86.3	90.7	93.6	94.2	97.4	97.4	97.8	97.8	97.8	97.8	97.8
≥200	51.5	63.2	65.9	79.6	85.8	86.3	90.7	93.6	94.2	97.4	97.4	97.8	97.8	97.8	97.8	97.8
≥100	51.5	63.2	65.9	79.6	85.8	86.3	90.7	93.6	94.2	97.4	97.4	97.8	97.8	97.8	97.8	97.8
≥0	51.5	63.2	65.9	79.6	85.8	86.3	90.7	93.6	94.2	97.4	97.4	97.8	97.8	97.8	97.8	97.8

TOTAL NUMBER OF OBSERVATIONS 500

USAF ETAC 1004 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

176265

BAD KREUZNACH, OL

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY: STATUTE MILES OR IN HUNDREDS OF METERS															
	≥10	≥8	≥6	≥4	≥3	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2
≥2000	13.5	16.5	17.3	20.4	21.2	21.2	21.4	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
≥1800	18.3	22.4	23.6	27.2	28.6	28.6	29.0	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
≥1600	19.0	23.4	24.6	28.4	29.8	29.8	30.2	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
≥1400	19.2	23.6	24.8	28.6	30.0	30.0	30.4	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
≥1200	20.0	24.8	26.0	30.0	31.3	31.3	31.7	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
≥1000	24.2	29.4	31.0	35.5	37.7	37.7	38.1	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
≥800	26.2	31.3	33.1	38.1	40.5	40.5	40.9	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
≥600	28.0	33.7	35.7	41.1	43.7	43.7	44.0	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥400	29.4	35.1	37.1	42.7	45.6	45.6	46.4	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
≥200	30.0	35.7	37.7	43.3	46.4	46.4	47.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥100	30.8	36.5	38.5	44.0	47.2	47.4	48.2	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥50	31.9	37.9	39.9	45.8	49.0	49.2	50.0	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥25	36.7	44.2	46.6	53.4	57.1	57.5	58.3	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥12.5	39.9	48.0	51.4	58.7	62.5	62.9	63.7	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥6.25	45.2	54.0	57.3	66.1	70.0	70.4	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥3.125	47.6	56.5	60.1	69.6	74.2	75.2	76.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
≥1.5625	51.0	60.9	64.5	74.2	79.8	80.8	82.3	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥0.78125	51.4	61.7	65.3	75.4	81.0	81.9	83.7	83.9	83.9	83.9	84.3	84.7	84.7	84.7	84.7	84.7
≥0.390625	53.4	63.9	67.9	79.2	84.7	85.7	87.5	87.7	87.7	87.7	88.1	88.5	88.5	88.5	88.5	88.5
≥0.1953125	53.8	64.3	68.5	81.3	86.9	87.9	89.7	90.1	90.1	90.1	90.3	90.9	91.3	91.3	91.3	91.3
≥0.09765625	54.0	64.5	68.7	81.5	87.5	88.9	90.9	91.9	91.9	92.5	93.1	93.8	93.8	93.8	93.8	93.8
≥0.048828125	54.0	64.5	68.7	81.5	87.5	88.9	91.1	92.3	92.3	93.1	93.7	94.4	94.4	94.4	94.4	94.4
≥0.0244140625	54.0	64.5	68.7	81.5	87.5	88.9	91.1	92.7	93.1	94.2	94.8	95.6	95.6	95.6	95.6	95.6
≥0.01220703125	54.0	64.5	68.7	81.9	87.9	89.3	91.5	93.1	93.7	94.6	95.2	96.0	96.2	96.2	96.2	96.4
≥0.006103515625	54.0	64.5	68.7	81.9	87.9	89.3	91.5	93.3	93.8	94.8	95.4	96.8	97.0	97.2	97.2	97.4
≥0.0030517578125	54.0	64.5	68.7	81.9	88.5	89.9	92.1	94.4	95.0	96.2	96.8	98.2	98.4	98.6	98.6	98.8
≥0.00152587890625	54.0	64.5	68.7	81.9	88.5	89.9	92.1	94.4	95.0	96.6	97.2	98.6	98.8	99.0	99.0	99.2
≥0.000762939453125	54.0	64.5	68.7	81.9	88.5	89.9	92.1	94.4	95.0	96.6	97.2	98.6	98.8	99.0	99.0	99.4
≥0.0003814697265625	54.0	64.5	68.7	81.9	88.5	89.9	92.1	94.4	95.0	96.6	97.2	98.6	98.8	99.0	99.0	100.0
≥0.00019073486328125	54.0	64.5	68.7	81.9	88.5	89.9	92.1	94.4	95.0	96.6	97.2	98.6	98.8	99.0	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 508

CEILING VERSUS VISIBILITY

DEC

~~620-0800~~

TOTAL NUMBER OF OBSERVATIONS 383

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1-6265

BAD KREUZNACH DL

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

9900-1100

CEILING (FEET)	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
21000	9.1	11.6	14.5	17.6	19.3	19.7	20.0	20.0	20.2	20.5	20.5	20.5	20.5	20.5	20.5	20.5
20000	10.6	13.9	16.8	20.5	22.7	23.4	24.4	24.4	24.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9
21800	10.8	14.1	17.0	20.7	22.9	23.5	24.7	24.7	24.9	25.2	25.2	25.2	25.2	25.2	25.2	25.2
21600	10.8	14.1	17.0	20.7	22.9	23.5	24.7	24.7	24.9	25.2	25.2	25.2	25.2	25.2	25.2	25.2
21400	10.9	14.3	17.1	20.8	23.0	23.7	24.9	25.2	25.4	25.7	25.7	25.7	25.7	25.7	25.7	25.7
21200	11.6	15.0	17.8	21.7	23.9	24.5	25.7	26.1	26.2	26.6	26.7	26.7	26.7	26.7	26.7	26.7
21000	11.8	15.8	18.8	22.7	25.4	26.1	27.2	27.6	27.7	28.1	28.2	28.2	28.2	28.2	28.2	28.2
20800	12.9	17.1	20.5	24.4	27.2	27.9	29.1	29.4	29.6	29.9	30.1	30.1	30.1	30.1	30.1	30.1
20600	15.1	21.2	24.5	29.4	32.3	32.9	34.1	34.5	34.6	35.0	35.1	35.1	35.1	35.1	35.1	35.1
20400	15.5	21.5	24.9	30.3	33.3	34.3	35.6	36.0	36.1	36.5	36.6	36.8	36.8	37.0	37.0	37.1
20200	15.5	21.7	25.0	30.4	33.4	34.5	35.8	36.1	36.3	36.6	36.8	37.0	37.0	37.1	37.1	37.3
20000	16.3	22.7	26.1	31.4	34.5	35.5	37.0	37.3	37.5	37.8	38.0	38.2	38.2	38.3	38.3	38.5
19800	16.3	22.9	26.4	31.8	34.8	35.8	37.5	37.8	38.0	38.3	38.5	38.7	38.7	38.8	38.8	39.0
19600	18.5	26.4	30.1	36.0	39.5	40.7	42.7	43.2	43.4	43.7	43.9	44.0	44.0	44.2	44.2	44.4
19400	19.5	28.4	32.8	39.3	42.9	44.0	46.1	46.6	46.9	47.2	47.4	47.6	47.6	47.7	47.7	47.9
19200	25.0	35.1	40.0	47.9	52.1	53.3	56.1	56.6	57.0	57.3	57.5	57.6	57.6	57.8	57.8	58.0
19000	29.2	40.7	46.6	55.1	60.3	62.0	65.2	65.9	66.2	66.6	66.7	66.9	66.9	67.1	67.1	67.2
18800	32.9	45.4	51.9	60.7	66.7	68.4	72.8	73.6	74.3	75.3	75.5	75.6	75.6	75.8	75.8	76.0
18600	33.6	46.4	52.9	62.2	68.4	70.1	74.5	75.8	77.0	78.7	78.8	79.0	79.0	79.2	79.2	79.3
18400	34.8	48.6	55.3	65.5	72.4	74.1	78.8	80.2	81.3	83.0	83.2	83.4	83.5	83.7	83.7	83.9
18200	35.0	48.9	56.0	66.6	73.4	75.6	80.5	81.8	83.0	85.2	85.4	85.7	85.9	86.1	86.1	86.2
18000	35.3	49.2	56.5	68.1	75.0	77.1	82.0	83.9	85.0	87.7	87.9	88.2	88.4	88.6	88.6	88.7
17800	35.3	49.6	56.8	68.6	75.6	78.2	83.0	84.9	86.1	89.2	89.4	89.7	89.9	90.1	90.1	90.3
17600	35.3	49.6	57.0	68.7	76.0	78.5	83.4	85.9	87.1	90.4	90.8	91.3	91.6	92.1	92.1	92.3
17400	35.3	49.6	57.0	68.7	76.0	78.5	83.5	86.2	87.6	91.8	92.1	92.6	92.9	93.6	93.6	93.8
17200	35.3	49.6	57.0	68.7	76.0	78.7	83.9	87.1	88.6	93.1	94.3	95.1	95.6	96.5	96.5	96.6
17000	35.3	49.6	57.0	68.7	76.0	78.7	84.0	87.2	88.9	93.9	95.1	96.1	96.6	97.5	97.5	97.6
16800	35.3	49.6	57.0	68.7	76.0	78.7	84.0	87.2	88.9	94.1	95.3	96.6	97.3	98.3	98.3	98.5
16600	35.3	49.6	57.0	68.7	76.0	78.7	84.0	87.2	88.9	94.1	95.3	96.6	97.3	98.7	98.8	99.0
16400	35.3	49.6	57.0	68.7	76.0	78.7	84.0	87.2	88.9	94.1	95.3	96.6	97.3	98.7	98.8	99.0
16200	35.3	49.6	57.0	68.7	76.0	78.7	84.0	87.2	88.9	94.1	95.3	96.6	97.3	98.7	98.8	99.0
16000	35.3	49.6	57.0	68.7	76.0	78.7	84.0	87.2	88.9	94.1	95.3	96.6	97.3	98.7	98.8	99.0

TOTAL NUMBER OF OBSERVATIONS 595

USAF ETAC FORM 101-84 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

106265 BAD KREUZNACH DL

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

12JC-1400

		VISIBILITY STATISTICS OR (HUNDREDS OF METERS)															
		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
CEILING FEET	METERS	GT90	FG90	GE80	GE60	GE40	GE32	GE24	GE20	GE16	GE12	GE10	GE08	GE05	GE03	GE01	GE00
		11.4	14.6	16.8	19.7	20.6	21.2	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
12000	3658	12.7	16.5	18.6	22.1	24.1	24.2	24.8	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
10000	3048	12.8	16.6	18.8	22.2	24.2	24.4	25.0	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
8000	2438	13.0	17.0	19.2	22.8	24.8	25.0	25.5	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
6000	1829	14.1	18.1	20.3	24.1	26.0	26.2	26.8	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
4000	1219	14.8	19.0	21.2	25.5	28.2	28.4	28.9	29.3	29.3	29.5	29.5	29.5	29.5	29.5	29.5	29.5
2000	609	15.9	20.3	22.4	26.8	29.7	29.8	30.4	30.7	30.7	30.9	30.9	30.9	30.9	30.9	30.9	30.9
1000	305	17.5	23.0	25.1	30.6	33.5	33.6	34.9	35.3	35.3	35.4	35.4	35.4	35.4	35.4	35.4	35.4
800	244	18.8	24.2	26.6	32.0	35.1	35.4	36.7	37.1	37.1	37.3	37.3	37.3	37.3	37.3	37.3	37.6
600	183	19.3	24.8	27.1	32.5	35.6	36.0	37.3	37.6	37.6	37.8	37.8	37.8	37.8	37.8	38.0	38.2
400	122	20.3	25.7	28.0	33.5	36.5	36.9	38.2	38.5	38.5	38.7	38.7	38.7	38.7	38.7	38.9	39.1
200	61	21.7	27.3	29.7	35.1	38.2	38.5	40.3	40.7	40.7	40.9	40.9	40.9	40.9	40.9	41.0	41.2
100	30	24.1	31.1	34.0	41.0	44.7	45.0	46.8	47.2	47.2	47.4	47.4	47.4	47.4	47.6	47.7	48.1
80	24	25.7	33.3	36.9	44.1	47.7	48.1	50.1	50.5	50.6	50.8	50.8	50.8	51.0	51.2	51.4	51.5
60	18	33.5	42.5	46.5	55.2	59.3	59.9	62.0	62.6	62.9	63.5	63.5	63.7	63.8	64.0	64.2	64.4
40	12	37.3	47.0	51.9	60.9	65.8	66.7	68.9	69.6	70.0	70.5	70.5	70.7	70.9	71.4	71.6	71.8
20	6	41.0	52.3	57.9	67.6	73.1	74.0	76.5	77.4	77.8	79.0	79.0	79.2	79.4	79.9	80.1	80.3
10	3	42.9	55.0	60.8	70.9	76.7	77.9	80.7	82.1	82.8	84.1	84.1	84.3	84.4	85.0	85.2	85.4
8	2	43.2	55.5	61.3	71.6	77.4	79.0	81.7	83.2	83.9	85.5	85.5	85.7	85.9	86.4	86.6	86.8
6	1	43.6	56.2	62.6	73.6	79.4	81.0	84.1	85.9	86.6	89.2	89.2	89.5	89.7	90.2	90.4	90.6
4	0	43.6	56.2	62.6	73.6	79.4	81.0	84.6	86.6	87.3	90.1	90.1	90.4	90.6	91.1	91.3	91.5
2	0	43.6	56.2	62.9	74.1	79.9	81.6	85.2	87.7	88.8	91.5	91.5	91.9	92.0	92.6	92.8	92.9
1	0	43.6	56.4	63.1	74.5	80.3	81.9	85.9	88.6	89.3	92.9	93.1	93.5	93.9	94.6	94.8	94.9
0	0	43.6	56.4	63.1	74.5	80.3	81.9	86.1	88.8	89.5	93.3	93.7	94.0	94.4	95.1	95.3	95.5
0	0	43.6	56.4	63.1	74.5	80.3	81.9	86.1	89.0	89.7	93.9	94.2	94.9	95.3	96.7	96.9	97.1
0	0	43.6	56.4	63.1	74.5	80.3	81.9	86.3	89.2	89.9	94.6	94.9	95.7	96.2	97.6	97.8	98.0
0	0	43.6	56.4	63.1	74.5	80.3	81.9	86.3	89.2	89.9	94.6	94.9	96.0	96.6	98.6	99.1	99.3
0	0	43.6	56.4	63.1	74.5	80.3	81.9	86.3	89.2	89.9	94.6	94.9	96.0	96.6	98.7	99.6	99.8
0	0	43.6	56.4	63.1	74.5	80.3	81.9	86.3	89.2	89.9	94.6	94.9	96.0	96.6	98.7	99.6	99.8

TOTAL NUMBER OF OBSERVATIONS 553

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

176265

BAO KREUNACH DL

73-82

PLC

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1500-1700

		VISIBILITY STATEMENTS OR (HUNDREDS OF METERS)															
		GT92	EG90	GE80	GE60	GE40	GE32	GE24	GE20	GE16	GE12	GE10	GE08	GE05	GE04	GED	
1	1000	14.0	18.4	19.4	21.1	21.5	21.5	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
2	900	15.8	20.4	21.5	24.7	25.1	25.1	25.3	25.3	25.3	26.1	26.1	26.1	26.1	26.1	26.1	26.1
3	800	16.2	21.1	22.1	25.3	25.7	25.7	25.9	25.9	25.9	26.7	26.7	26.7	26.7	26.7	26.7	26.7
4	700	16.2	21.1	22.1	25.3	25.7	25.7	25.9	25.9	25.9	26.7	26.7	26.7	26.7	26.7	26.7	26.7
5	600	17.0	21.9	22.9	26.1	26.5	26.5	26.7	26.7	26.7	27.5	27.5	27.5	27.5	27.5	27.5	27.5
6	500	17.2	22.7	23.7	27.5	27.9	27.9	28.3	28.3	28.3	29.1	29.1	29.1	29.1	29.1	29.1	29.1
7	400	17.6	23.1	24.3	28.3	29.1	29.1	29.6	29.6	29.6	30.4	30.4	30.4	30.4	30.4	30.4	30.4
8	300	18.6	24.3	25.5	29.8	31.2	31.2	31.8	31.8	31.8	32.6	32.6	32.6	32.6	32.6	32.6	32.6
9	200	20.6	27.3	28.7	33.0	34.4	34.4	35.6	35.6	35.6	36.4	36.4	36.4	36.4	36.4	36.4	36.4
10	100	21.7	28.3	30.0	34.2	36.0	36.0	37.2	37.2	37.2	38.5	38.7	38.7	38.7	38.7	38.7	38.7
11	50	22.1	28.9	30.6	35.0	36.8	36.8	38.1	38.1	38.1	39.3	39.5	39.5	39.5	39.5	39.5	39.5
12	25	23.5	30.6	32.2	36.6	38.7	38.7	39.9	39.9	39.9	41.1	41.3	41.3	41.3	41.3	41.3	41.3
13	10	24.1	31.2	32.8	37.2	39.3	39.3	40.5	41.1	41.1	42.3	42.5	42.5	42.5	42.5	42.5	42.5
14	5	26.7	34.8	37.0	42.5	45.1	45.1	46.4	47.0	47.0	48.4	48.6	48.6	48.6	48.6	48.6	48.6
15	2	27.3	35.6	38.3	44.3	47.0	47.0	48.2	48.8	48.8	50.2	50.4	50.4	50.4	50.4	50.4	50.4
16	1	36.4	46.0	49.4	57.5	60.5	60.7	62.6	63.8	63.8	65.4	65.6	65.6	65.6	65.6	65.6	65.6
17	0.5	40.9	50.4	54.7	63.2	67.0	67.2	69.6	71.3	71.5	73.1	73.3	73.3	73.3	73.3	73.3	73.3
18	0.25	44.7	55.9	61.9	72.1	76.1	76.3	78.7	80.4	80.6	82.4	82.6	82.6	82.6	82.6	82.6	82.6
19	0.1	44.9	56.1	62.1	72.5	76.7	76.9	79.6	81.4	81.6	83.4	83.6	83.6	83.6	83.6	83.6	83.6
20	0.05	47.7	58.7	64.8	75.1	79.6	80.0	82.8	84.6	84.8	86.6	86.8	86.8	86.8	86.8	86.8	86.8
21	0.025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
22	0.01	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
23	0.005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
24	0.0025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
25	0.001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
26	0.0005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
27	0.00025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
28	0.0001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
29	0.00005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
30	0.000025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
31	0.00001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
32	0.000005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
33	0.0000025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
34	0.000001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
35	0.0000005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
36	0.00000025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
37	0.0000001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
38	0.00000005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
39	0.000000025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
40	0.00000001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
41	0.000000005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
42	0.0000000025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
43	0.000000001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
44	0.0000000005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
45	0.00000000025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
46	0.0000000001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
47	0.00000000005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
48	0.000000000025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
49	0.00000000001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
50	0.000000000005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
51	0.0000000000025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
52	0.000000000001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
53	0.0000000000005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
54	0.00000000000025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
55	0.0000000000001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
56	0.00000000000005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
57	0.000000000000025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
58	0.00000000000001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
59	0.000000000000005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
60	0.0000000000000025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
61	0.000000000000001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
62	0.0000000000000005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
63	0.00000000000000025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
64	0.0000000000000001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
65	0.00000000000000005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
66	0.000000000000000025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
67	0.00000000000000001	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
68	0.000000000000000005	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9
69	0.0000000000000000025	48.2	60.9	67.2	77.9	82.6	83.0	85.8	87.7	87.9	89.9	90.1	90.5	91.3	91.9	91.9	91.9

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:
 - a. Daily maximum temperatures
 - b. Daily minimum temperatures
 - c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:
 - a. Extreme maximum temperature DATA NOT AVAILABLE
 - b. Extreme minimum temperature DATA NOT AVAILABLE

NOTE: The following symbols are used in the extreme data blocks:

- (1) * indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

* Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ($\sum X^2$), sums of values ($\sum X$), means (\bar{X}), and standard deviations (σ_x). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

1
2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC
1 6265 BAD KREUZNACH DL
STATION STATION NAME

60-70, 73-83

YEARS

DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
95							.2	.7					.1
90					.5	1.5	5.5	3.1	.5				.9
85				.2	1.4	6.6	16.1	10.7	2.5				5.0
80				1.4	7.6	22.0	32.9	26.6	7.0	.2			7.9
75				3.5	16.9	43.7	49.7	47.5	19.5	2.1			14.9
70			.8	11.2	32.1	64.6	71.6	72.9	42.6	7.3			24.7
65			2.4	21.8	55.2	83.4	90.5	92.4	67.9	19.3	.5		35.5
60		1.0	11.1	41.9	76.9	93.9	99.5	100.0	92.0	37.7	3.7	1.1	46.1
55	2.1	2.9	23.5	60.4	94.5	98.8	100.0		99.2	67.2	15.0	4.6	55.5
50	8.7	15.4	47.2	80.1	98.4	99.8			100.0	86.9	32.1	11.7	65.3
45	23.4	30.3	75.3	96.0	99.8	100.0				96.8	61.5	26.6	76.3
40	40.8	56.7	90.9	99.3						99.4	80.6	45.7	84.9
35	66.3	81.9	98.6	100.0	100.0					100.0	93.9	72.3	93.0
30	82.8	96.6	100.0								99.5	90.8	97.5
25	93.6	99.0									100.0	97.3	99.2
20	98.2	100.0										99.2	99.8
15	100.0											100.0	100.0
MEAN	37.9	41.1	49.5	57.8	66.2	72.8	75.4	74.8	68.5	57.8	46.4	39.4	57.3
S D	8.332	7.178	7.664	8.895	8.349	8.043	8.340	7.421	7.009	7.614	7.430	8.113	15.538
TOTAL OBS	436	409	494	427	433	410	398	421	399	467	408	368	5070

USAFETAC FORM 0-21-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC
16265 BAD KREUZNACH DL
STATION NAME

DAILY TEMPERATURES

60-70, 73-83 YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
70					.2	1.5	2.3						.3
65					.5	7.1	14.3	5.0	1.0				2.2
60					6.2	37.6	50.3	39.9	11.0	1.9	.2		11.9
55			1.2	3.0	25.6	72.7	85.9	74.6	37.6	11.8	2.7	.8	25.7
50	1.4	.2	4.3	16.4	61.2	94.4	99.0	95.7	67.2	33.4	8.6	3.8	39.8
45	6.2	5.9	15.8	40.0	85.3	99.0	100.0	99.8	86.2	59.1	25.2	11.1	52.4
40	17.9	15.4	38.5	67.7	95.6	100.0		100.0	95.5	81.8	44.9	23.1	65.0
35	42.7	41.6	66.0	90.6	99.8				99.5	93.4	72.3	47.6	79.5
33	54.6	50.6	74.9	95.1	100.0				100.0	96.1	81.4	59.8	84.5
30	67.2	65.3	86.8	98.1						98.7	90.7	71.7	90.0
25	79.8	85.6	94.1	100.0						100.0	97.5	84.5	95.2
20	88.3	93.4	98.6								99.5	92.4	97.7
15	94.3	97.1	99.2								100.0	97.8	99.0
10	96.8	97.3	99.6									99.7	99.4
5	98.9	98.8	100.0									100.0	99.8
0	99.3	99.8											99.9
-5	99.8	100.0											100.0
-10	100.0												100.0
MEAN	31.7	32.0	37.3	42.8	50.6	57.8	59.5	57.7	51.7	45.8	39.0	33.6	44.9
S D	9.676	8.341	7.547	6.257	5.754	5.172	4.811	4.780	6.410	7.672	7.558	8.848	12.062
TOTAL OBS.	436	409	494	427	433	410	398	421	399	467	408	368	5070

1
2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/HAC
106265 BAD KREUZNACH DL
STATION STATION NAME

67-77, 73-83

YEARS

DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MEAN

TEMP. °F.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
80					.2	.7	3.0	.7					.4
75					.7	6.6	14.6	6.4	.8				3.3
70				.2	4.8	27.1	36.9	27.6	5.8	.2			8.2
65				1.6	16.9	56.6	68.1	64.1	23.8	2.6			18.9
60			.4	8.9	42.7	83.7	93.0	92.4	52.9	12.6	.5		31.5
55		.2	5.1	30.2	74.6	96.6	100.0	99.8	86.0	37.0	5.6	1.9	44.1
50	2.8	4.2	17.2	56.0	94.7	99.3		100.0	98.0	63.2	19.1	6.0	54.7
45	12.8	13.9	47.2	78.2	98.6	100.0			100.0	87.6	42.2	17.7	66.7
40	30.0	34.5	73.7	96.7	99.8					97.9	67.9	36.7	78.5
35	58.3	64.1	90.5	100.0	100.0					100.0	87.5	62.8	88.9
30	75.5	86.1	98.2								97.8	80.2	95.0
25	88.1	96.6	99.4								99.8	94.0	98.2
20	94.7	97.3	100.0								100.0	97.8	99.2
15	97.9	99.5										99.5	99.7
10	99.1	100.0										100.0	99.9
5	100.0												100.0
0													
-5													
-10													
-15													
-20													
-25													
-30													
-35													
-40													
-45													
-50													
-55													
-60													
-65													
-70													
-75													
-80													
MEAN	35.0	36.9	43.6	50.5	58.7	65.5	67.7	66.5	60.4	52.1	43.0	36.8	51.4
S.D.	8.792	7.286	6.631	6.623	6.199	6.020	5.897	5.109	5.480	6.494	7.184	6.232	13.381
TOTAL OBS	436	409	494	427	433	410	398	421	399	467	408	368	5070

PSYCHROMETRIC SUMMARY

1 6265	GAD KREUZNACH DL
STATION	STATION NAME

74-63

YEARS

JAN
MONTH

PAGE 1 7000-0800
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

1 0265	6AD KREUZNACH DL
STATION	STATION NAME

74-83

YEARS

MONITOR

PAGE 1

~~SECRET~~

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
54/ 55				.5	.2													5	3																
54/ 51				.5	.2													5																	
52/ 51		.2	1.3	.2	.2													11	11																
52/ 49		.3	1.1	.3	.2													11	12	7															
49/ 47		1.5	2.8	1.8	.2													33	33	12															
47/ 45		3.4	1.6	.7														35	35	4															
44/ 43	.8	3.1	3.6	.5														49	49	41															
42/ 41		4.2	2.4															45	45	32															
41/ 39	.3	4.6	1.6	.3														42	42	32															
38/ 37	1.1	5.9	3.1	.2														62	62	48															
36/ 35	2.4	7.3	2.3	.3														76	76	61															
34/ 33	1.5	4.4	1.6															46	46	33															
32/ 31	1.1	3.6																28	28	45															
30/ 29	.5	4.6																31	31	37															
29/ 27	3.3	2.4	.2															36	36	35															
26/ 25	1.1	1.1																15	15	17															
24/ 23	1.8	.7																15	15	19															
22/ 21	2.1	.5	.2															17	17	16															
21/ 19	2.1	.7	.2															17	17	15															
18/ 17	.6	.3																7	7	12															
15/ 15	.3	.3																4	4	5															
14/ 13	.3																	2	2	2															
12/ 11	.7																	4	4	4															
10/ 9	1.0																	6	6	6															
7/ 7	.2	.2																2	2	1															
6/ 5	.7	.2																5	5	5															
4/ 3	.3																	2	2	3															
2/ 1	.3																	2	2	2															
0/ -1	.3																	2	2	2															
-2/ -3																																			
-4/ -5	.2																	1	1	1															
TOTAL	22.85	122.4	4.1	.7														615	615	615															

Element (X)	Σx ²	Σx	\bar{x}	s _x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	44085.4	5167.9	84.010	4.30	615	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≥ 93 F	Total
Dry Bulb	819516	21556	35.110	2.27	615	.5	29.6					93
Wet Bulb	734737	20468	33.3	9.337	615	.5	34.3					93
Dew Point	623457	18753	30.5	9.170	615	1.2	51.8					92

PSYCHROMETRIC SUMMARY

1 0365	SAR KREUNACH DL
STATION	STATION NAME

74-87

YEARS

JAN
MONTH

PAGE 1 1270-1400
HOURS (L. S. T.)

[illegible]

2

12

74-63

YEARS

JAN
MONT

PAGE 1 100-1701
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
54/ 57			.5				.3											5	5															
55/ 55			.5	.8	.2													9	9															
54/ 51			.3	.7	.2													7	7	3														
52/ 51			1.9	.7														15	15	3	5													
51/ 49		1.8	2.7	1.9	.2													31	30	14														
48/ 47		.3	2.7	1.7	.3													25	29	32	4													
46/ 45		1.7	5.1	3.0	.2													59	50	71	25													
44/ 43		2.1	3.2	2.7														47	47	20	19													
42/ 41		3.4	3.9	.3														45	45	61	32													
40/ 39	.2	5.8	4.6	.5														65	65	49	35													
38/ 37	.7	5.1	4.4	.3														62	62	67	43													
36/ 35	.3	5.1	3.2	.2														51	51	61	59													
34/ 33		2.7	2.7															32	32	78	61													
32/ 31	.3	3.7																24	24	36	67													
31/ 29	.5	3.6	.5															27	27	32	57													
28/ 27	2.7	2.2	1.0															35	35	34	72													
26/ 25		1.9																11	11	12	32													
24/ 23	.3	.8																7	7	16	17													
22/ 21	.5	1.0																9	9	9	10													
20/ 19	.5	1.0	.2															11	11	9	19													
18/ 17	.5	.2																4	4	6	12													
16/ 15	.7																	4	4	9	12													
14/ 13	.3																	2	2	2	2													
12/ 11	.3																	2	2	2	5													
10/ 9																					8													
8/ 7																					4													
6/ 5																					2													
TOTAL	6.14	3.73	6.71	2.2	1.6	.3												591	591	591	591													

Element (X)	Z _x '	Z _x	X	e _a	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	3609131	45773	77.5	8.416	591							
Dry Bulb	917735	22715	38.4	8.703	591		21.2					93
Wet Bulb	791542	21140	35.8	7.825	591		26.4					93
Dew Point	635701	18771	31.8	8.183	591		38.8					93

PSYCHROMETRIC SUMMARY

1-266 LAD KRECHNACH DI
STATION STATION NAME

74-87

YEARS

FFI
MONTANA

PAGE : 0650-0800
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
✓ 51					.1													7	7																
✓ 45				.2	.6													6	6																
✓ 47			.2	.5	.3													4	4	3															
✓ 45		1.9	2.9	.3														19	19	7	2														
✓ 43		1.6	.3															7	7	11	2														
✓ 41	.5	4.3	1.1															24	24	20	15														
✓ 39	.3	5.3	.9	.5														26	26	19	19														
✓ 37	3.4	6.9	1.6															45	45	36	34														
✓ 35	1.6	6.3	1.3															35	35	27	29														
✓ 33	1.9	5.8	1.6															35	35	52	35														
✓ 31	.5	6.3	.5															25	28	27	31														
✓ 29	1.1	1.1																43	43	45	36														
✓ 27	9.5	5.6	.3															58	58	56	67														
✓ 25	1.9	2.4																16	16	19	44														
✓ 23	1.9	1.1																11	11	15	26														
✓ 21	.8	.8																6	6	5	45														
✓ 19	.5	.5																4	4	5	5														
✓ 17	1.9	.5																9	9	9	8														
✓ 15																					3														
✓ 13																					5														
✓ 11																					2														
TOTAL	25.96	1.11	.6	2.4														375	378	378															

Element (X)	$\Sigma X'$	Σx	\bar{x}	s^2	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	2894846	32908	87.7	9.314	378	= 6 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total
Dry Bulb	482559	12667	33.5	6.925	378		38.9					44
Wet Bulb	407056	12174	32.2	6.363	378		42.9					44
Dew Point	354438	11318	29.9	6.423	378		53.6					84

2

4

74-62

55

STATION

STATION NAME

YEARS

MONTH

PAGE 1 295G-1113

HOURS		L		S		T	
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USAFETAC
FORM 0-26-5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
MAY 64

2

4

74-23

YEARS

123
MONTH

PAGE 1 12-9-14
HOURS (L. S. T.)

[illegible]

USAFETAC FORM 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
CHAFETAC
ATTN: WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION NAME

14-57

YEARS

MONTH

PAGE 5 157-170
HOURS (L, S, T,)

[illegible]

GLOBAL CLIMATOLOGY BRANCH
CHARTER
AND WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

! 1707 DAL RDEU. YACH D!

24-11-5

STATION

STATION NAME

YEARS

424

100 9 5 2

[illegible]

FORM 0-26-5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

JSAFETAC

CLIMATE CLIMATOLOGY BRANCH
 1105TAC
 A F WEATHER SERVICE/NAO

PSYCHROMETRIC SUMMARY

1.230" 64E FREUNACH DL
STATION STATION NAME

74-83

YEARS

MA
MONTH

PAGE 1 ~~1000-11~~
HOURS (L. S. T.)

[illegible]

2

4

77-2.

STATION

STATION NAME

YEARS

MONTH

PAID 12 5-1455
HOURS (L. S. T.)

JSAFETAC
POMs
JAN 64
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

14

YEARS

MONTH

PAGE 1

USAFETAC

PSYCHROMETRIC SUMMARY

74-15

YEARS

[illegible]

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

FROM

USAFETAC

PSYCHROMETRIC SUMMARY

YEARS _____
 MONTH _____
 HOURS (L. S. T.) _____
 PAGE 1

[illegible]

2

14 4

تتمتع

YEARS

APR
MONTH

1200-1400
HOURS (L. S. T.)

FORM
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
FAX 84

USAFETAC

PSYCHROMETRIC SUMMARY

1 626F	EAD KPEUNACH DL
STATION	STATION NAME

74-85

YEARS

APR
MONTH

PAGE 1 1500-1700
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
70 / 70																		1	1													
70 / 77											.4							2	2													
70 / 75										.2	.4							3	3													
70 / 73										.2	1.1	.6						1	17													
70 / 71							.4			.4	.4	.2						13	13													
70 / 69						.4	1.1	.9	1.1	.9	.2							24	24													
70 / 67						.4	.8	.9	2.1	.4	.2							25	25													
70 / 65						.4	.9	.8	1.3									18	18													
70 / 62				.2	.4	2.4	3.6	1.4	1.1	.2								54	54													
70 / 61				.2	1.7	1.1	2.1	1.7	.7									35	35	3												
70 / 59			.2	1.1	.7	.9	1.9	1.1	.2									34	34	7												
70 / 57			.2	.8	.2	1.9	.9	2.4	.7									35	35	21												
70 / 55		.2	.4	.8	3.2	1.5	.6	.4										37	37	51												
70 / 53		.2	.7	.6	1.1	.8	1.9	.7										26	26	67	3											
70 / 51		.2	1.1	1.1	1.5	1.3	1.5	.7										37	37	62	6											
70 / 49		.2	1.3	1.3	.6	3.0	.6											39	39	37	16											
70 / 47		.4	2.6	1.7	2.8	1.7												47	47	64	23											
70 / 45		.8	4.7	3.8	1.7													58	58	54	39											
70 / 43		.2	.9	.3														10	11	56	32											
70 / 41	1.5	1.1	.4															16	16	69	52											
70 / 39	1.1																	6	4	58	58											
70 / 37																				21	65											
70 / 35	.4																	2	3	2	39											
70 / 33																					51											
70 / 31																					4											
70 / 29																					38											
70 / 27																					35											
70 / 25																					10											
70 / 23																					16											
70 / 21																					4											
70 / 15																					1											
70 / 11																					1											
TOTAL	.4	4.7	12.8	12.8	14.9	15.7	16.2	10.9	7.0	3.9	1.7							532	532		532											

Element (X)	ΣX'	ΣX	X	σ _x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	1556412	27294	51.3	17.146	532	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1717849	29861	56.1	8.868	532			13.2	2.7	.2		97
Wet Bulb	1192733	24999	47.1	5.825	532							92
Dew Point	749717	19619	36.9	7.826	532		25.5					90

21

PSYCHROMETRIC SUMMARY

YEARS

4.2 Y
MONTH

PAGE 1 7900-1100
HOURS (L. S. T.)

JSAFETAC FORM 0-26-5 (OL A)
MAY 64
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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24-3

VEARS

MOM T

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

USAFETAC 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION: MAC KPCOLVACH DL 74-87 YEARS: 1944-1950
MONTH: 12-1-1950
PAGE: 1 HOURS (L. S. T.):

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point															
77/62																																			
77/59																																			
77/57																																			
77/55																																			
77/53																																			
77/51																																			
77/70																																			
77/77																																			
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77/39																																			
77/37																																			
77/35																																			
77/33																																			
77/31																																			
77/29																																			
77/27																																			
Element (X)	2x1	2x2	2x3	2x4	2x5	2x6	2x7	2x8	2x9	2x10	2x11	2x12	2x13	2x14	2x15	2x16	2x17	2x18	2x19	2x20	2x21	2x22	2x23	2x24	2x25	2x26	2x27	2x28	2x29	2x30	2x31	2x32	2x33	2x34	2x35
Ref. Num.																																			
Dry Bulb																																			
Wet Bulb																																			
Dew Point																																			

USAFETAC FORM 0-76-5 (OL A) 8-50 REPLACES EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
WEATHER
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

2.0245 GAO KRENNACH DL
STATION STATION NAME

٢٤-٢٥

YEARS

2-21
MONTANA

P457

~~1500-1700~~
HOURS 11.5.11

[illegible]

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
1	JOHN F. KELLY JR. DL	1980	1

[illegible]

2

14 4

33

YEARS

●

0.26-5 (OLA)

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
JAFETAC
AIR FATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 4265 300 * REU INACH DL

2-3

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STAT-2N

STATION NAME

YEARS

MONTH

CASE

12-14-1
HOURS 11.5.7.1

[illegible]

0-26-5 (OL A)
REVISED PREVIEW - CONDITIONS OF THIS REVIEW ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
C/AFETAC
AIR WEATHER SERVICE /MAC

PSYCHROMETRIC SUMMARY

1-2265	142 KREUNACH DL	75-80	111
STATION	STATION NAME	YEARS	MONTH

AGE 1 15-17-2
HOURS 10-5-1

[illegible]

USAFETAC
FORM
JA 64
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

YEARS

7-3

STATION

STATION NAME

MON T N

2465 1

1670-29-7
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
74/ 77																		1	1																
74/ 75																		2	5																
74/ 73																		4	4																
74/ 71																		12	10																
74/ 69																		19	19																
74/ 67																		17	17																
74/ 65																		43	43	11	1														
74/ 63																		73	73	71	5														
74/ 61																		69	59	49	27														
74/ 59																		56	56	65	39														
74/ 57																		42	42	51	43														
74/ 55																		32	32	45	72														
74/ 53																		17	17	55	58														
74/ 51																		6	6	40	47														
74/ 49																		1	1	31	31														
74/ 47																		1	1	3	40														
74/ 45																																			
74/ 43																																			
TOTAL	210	737	128	11	2	5.6	2.7	1.4	1.5									402	402	402	402														

Element	Σx^2	Σx	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel Hum	2693542	37062	74.8	10.649	402	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1556839	24879	61.9	5.267	402			14.1	2.3			93
Wet Bulb	1320472	22978	57.2	4.198	402			.2				93
Dew Point	1161695	21527	53.5	4.558	402							93

GLOBAL CLIMATOLOGY BRANCH
GEASSTAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 1205 140 KNUDSEN DL
STATION STATION NAME

77-82

YEARS

1111

747

~~SECRET~~

[illegible]

0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

PSYCHROMETRIC SUMMARY

73-82

YEARS

July
MONTANA

PAGE 1 12-9-14
HOURS (L. S. T.)

[illegible]

USAFETAC
FORM 0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1-5265 JAD WPLU NACH DL 7-67 YEARS 1-11 MONTH

PAGE 1 1-1-1970
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
96/ 95																																				
95/ 91																																				
94/ 89																																				
93/ 87																																				
92/ 85																																				
91/ 83																																				
90/ 81																																				
89/ 79																																				
88/ 77																																				
87/ 75																																				
86/ 73																																				
85/ 71																																				
84/ 69																																				
83/ 67																																				
82/ 65																																				
81/ 63																																				
80/ 61																																				
79/ 59																																				
78/ 57																																				
77/ 55																																				
76/ 53																																				
75/ 51																																				
74/ 49																																				
73/ 47																																				
72/ 45																																				
71/ 43																																				
70/ 41																																				
69/ 39																																				
68/ 37																																				
67/ 35																																				
TOTAL	4	3	2	4	3	7	6	9	8	14	4	15	6	13	2	12	4	5	7	5	9	3	0	1	2	4	1	3	4					540	540	540
Element (X)	Σx'		Σx		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ		Σ	
Rel. Hum.	15118946		27251		52.5		515.728		540		10 F		12 F		17 F		23 F		25 F		25 F		25 F		25 F		25 F		25 F		25 F		25 F		25 F	
Dry Bulb	2958196		397.6		73.5		8466		540																											
Wet Bulb	2046231		23153		61.8		4439		540																											
Dew Point	1513763		28439		52.7		5453		540																											

USAFETAC FORM 0-26-5 (OL A) REVISED BY YOUR EDITORIAL STAFF FOR THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH
CHIEF/STAG
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

2-265
STATION
CAN. AREA. NAME. DL
STATION NAME

7-2-82

YEARS

211
MONTH

PAGE 1

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
147 77				.2	.7	.2												3	3																
127 71			.2	.2	.5													4	4																
77 69			.2	.7	.2													5	7																
127 67		1.2	1.7	.7														16	16																
147 65	2.4	1.9	1.9	1.	.2													31	31	7															
147 62	.5	2.3	2.2	2.2	1.	.2												36	56	26	17														
127 61	.7	2.7	2.9	2.9	.7													71	71	45	23														
127 59	1.	2.4	2.6	4.5	.7	.7												71	71	78	45														
147 57	.	2.3	2.3	2.9	.5													51	51	67	67														
127 55		2.6	3.1	1.7														71	31	68	52														
147 53		1.7	3.1															70	27	43	55														
127 51		.5	2.4	.2														13	13	37	53														
77 49		.2	.5															3	3	25	29														
147 47		.5																2	2	11	31														
147 45		.7	.2															4	4	5	29														
147 43																					1														
127 41																					7														
147 39																					1														
TOTAL	2.124	6.43	4.22	4	5.5	1.7	.2											419	419	419	419														

Element (X)	Σx^1	Σx	\bar{x}	σ^2	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	26573.0	33184	79.1	9.219	419	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	
Dry Bulb	1538070	25312	60.4	4.692	419			5.8	.7			97
Wet Bulb	1354999	23753	56.7	4.496	419			.4				23
Dew Point	1223357	22539	53.8	5.116	419							9

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

FORM 1041

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
OSSEETAC
AIR WEATHER SERVICE/MAO

PSYCHROMETRIC SUMMARY

1 1265	1 AD KRED. NACH DL
STATION	STATION

٧٣-٤٢

YEARS

ALL
MONTH

PAGE 1 0220-11.0
HOURS (L. S. T.)

[illegible]

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
1-267	WAD KHEUINACH DL	22-81	ALL

PAGE 3 100-1400
HOURS (L. S. T.)

[illegible]

2

PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 100-1720
HOURS (L. S. T.)

USAFETAC FORM 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 84

YEARS

10065	EAL KREUNACH DL
STATION	STATION NAME

DATE: 10-10-1960
MONTH: OCTOBER
HOURS: 11.5.1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B. Dry Bulb	Wet Bulb Dew Point	
77/65																																			
76/65																																			
75/63																																			
74/61																																			
73/59																																			
72/57																																			
71/55																																			
70/53																																			
69/51																																			
68/49																																			
67/47																																			
66/45																																			
65/43																																			
64/41																																			
63/39																																			
62/37																																			
61/35																																			
TOTAL	5.746	5.34	5.11	4.9	4.7	4.5	4.3	4.1	3.9	3.7	3.5	3.3	3.1	2.9	2.7	2.5	2.3	2.1	1.9	1.7	1.5	1.3	1.1	0.9	0.7	0.5	0.3	0.1	0	0	0	0	0		

Element (X)	$\Sigma x'$	Σx	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2314543	27395	83.5	6.998	32F	$\leq 0 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	
Dry Bulb	96526	1769	53.9	5.335	32°			.5				90
Wet Bulb	971797	16823	51.3	5.319	328							90
Dew Point	795922	16354	48.9	5.573	328							90

CLINICAL ULTRASONOGRAPHY BRANCH
IN CONTACT
AIR WEATHER & SERVICE/MAC

PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
JAC	PRELIMINARY DL	1951	10

HOURS 11. 5. 7.

[illegible]

2

CENTRAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE AFB

PSYCHROMETRIC SUMMARY

STATION NAME
STATION NAME

YEARS

MONTH

1-14-14
HOURS (L.S.T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
77																																					
76																																					
75																																					
74																																					
73																																					
72																																					
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45																																					
44																																					

USAFETAC FORM 0-26 S (OL A) 1-1-50 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

YEARS

• 200 AC 10-1-1968 DL
STATION STATION NAME

44

40:185

[illegible]

CLIMATE CLIMATOLOGY BRANCH
CLASSTAC
AIR WEATHER SERVICE AMAC

PSYCHROMETRIC SUMMARY

1-287	JAD KALUWACH DL	1961	JCT
STATION	STATION NAME	YEARS	MONTH

7-1-57 9
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
67/ 67																		1	1																	
67/ 61			1.3															2	2																	
67/ 59					1.5													4	4	1	1															
67/ 57			1.3	1.3														10	10	2	2															
67/ 55			1.3	3.1	1.3													21	21																	
67/ 53			1.3	2.3	2.3													22	22	17																
67/ 51				3.8	3.8													32	32	16	14															
67/ 49			1.3	3.8	3.8													32	32	33	18															
67/ 47			1.3	7.4	1.3													47	47	53	47															
67/ 45			3.1	11.9	3.8													75	75	94	75															
67/ 43			1.3	7.1	1.3													78	78	82	81															
67/ 41			1.3	1.1	1.5													43	43	42	49															
67/ 39				3.3	1.5													19	19	73	48															
67/ 37			1.3	2.8	1.3													19	19	16	30															
67/ 35				1.3	1.3													16	16	73	16															
67/ 33			1.5	1.3														2	2	14	16															
67/ 31				1.3	1.3													2	2	4	4															
67/ 29																		1	1	1	1															
67/ 27																					4															
TOTAL	2	15	12	10	1.8	1.8												394		394																

Element (X)	Σ x ²	Σ x	\bar{x}	s _x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	31048.10	343.6	88.3	8.695	394	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	254749	18165	46.2	6.265	394		7					53
Wet Bulb	793346	17534	44.5	5.765	394		12					27
Dew Point	736276	16874	42.8	5.864	394		31					9

YEARS

1 705 140 KILG. NACH 9L

10-20

MONTH

245

44-38861-100
NOV 11 1964

USAFETAC
FORM
NM 44
0-26.5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

U. S. CLIMATELOGY BRANCH
METEOROLOGICAL
WEATHER SERVICE / SAC

PSYCHROMETRIC SUMMARY

STATION _____ STATION NAME _____

73-62

YEARS

MONTH

PAGE

~~9-14-52~~
HOURS (L. S. T.)

[illegible]

1 0260 LAG KREUNACH DL 73-87 COT
STATION STATION NAME YEARS MONTH
FAIR 9 02-17
HOURS (L.S.T.)

[illegible]

1 576°	SAC KREULNACH DL
STATION	STATION NAME

73-87

YEARS

NO
MONTANA

PAGE 1

LEAD-PRICE
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	Dry Bulb	Wet Bulb	Dew Point														
77 54			.5	.7															2															
77 54																			2															
77 57			.5	.5	.7														5															
77 58		.3	.4																4															
77 53		1.1	.7	.3															7															
77 51		.3	1.2																8															
77 49		1.2	2.4	.3															18															
77 47	.3	4.1	2.2	.3															27															
77 46	2.2	5.1	2.4																39															
77 43	.5	4.6	2.2																27															
77 41	1.4	6.2	3.6																12															
77 39	.5	8.4	1.6																39															
77 37	3.8	4.3	.5																2															
77 35	1.9	5.7	1.6																34															
77 33	2.2	7.2																	16															
77 31	.3	2.4																	12															
77 29	1.5	3.5																	19															
77 27	2.2	.8																	1															
77 25	1.6	.8																	8															
77 23		.3																	3															
77 21	.3																		1															
77 19	.3																		1															
77 17																			1															
77 15																																		
TOTAL	2	.15	.32	.7	1.6	.3	.5												368	369	368													

Element (X)	ΣX^1	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2794837	31893	86.7	9.162	368	$\pm 0 F$	$\pm 32 F$	$\pm 67 F$	$\pm 73 F$	$\pm 80 F$	$\pm 93 F$	
Dry Bulb	623967	14892	40.5	7.622	368		13.7					97
Wet Bulb	572423	14787	38.8	6.955	368		15.7					90
Dew Point	513283	13499	36.7	7.025	368		24.5					90

0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/PAC

PSYCHROMETRIC SUMMARY

110235 CAC KREU NACH DL
STATION STATION NAME

74-50

YEARS

NOV
MONTH

PAGE 4

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point											
17/ 61			.7	.3		.2	.2											6	6													
27/ 59			.4			.2												7	7													
37/ 57			.7	.5														7	7	3												
47/ 55			1.2	1.1	.4													14	14	3	3											
57/ 53		.7	2.4	.2														2	27	4												
67/ 51		1.5	2.3	1.2														26	26	3	4											
77/ 49		1.3	2.2	1.4														27	27	27	8											
87/ 47	.2	3.6	1.4	.7														37	37	43	21											
97/ 45	.5	4.2	4.1	.4														51	51	45	59											
107/ 43	.4	6.5	4.2	1.1														71	71	54	25											
117/ 41	.2	5.7	6.3															69	69	46	54											
127/ 39	.7	7.4	2.4															58	58	74	52											
137/ 37	2.2	7.4	1.4	.2														40	47	73	57											
147/ 35	.9	3.8	1.1															32	32	45	73											
157/ 33	1.1	2.7	.7															21	21	31	55											
167/ 31	.4	2.5	.2															17	17	25	31											
177/ 29	1.6	2.9	.4															27	27	27	31											
187/ 27	.9	2.2																17	17	22	33											
197/ 25	.4																	2	2	7	16											
207/ 23	.7																	4	4	3	14											
217/ 21	.2																	1	1	2	9											
227/ 19																					1											
237/ 17																					2											
TOTAL	10.445	433.2	7.8	.2	.4	.2												552		552	552											

Element (X)	ΣX^2	ΣX	\bar{X}	s_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3774760	45308	82.1	11.0	552	≤ 0 F	≥ 32 F	≤ 67 F	≥ 73 F	≤ 80 F	≥ 93 F	
Dry Bulb	1010881	23241	42.1	7.663	552		11.1					50
Wet Bulb	898694	21952	39.8	6.830	552		14.0					44
Dew Point	775397	20335	36.8	6.906	552		22.0					9

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

FORM 1

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/NAO

PSYCHROMETRIC SUMMARY

1.265	SAT. FREELINACH DL
STATION	STATION NAME

7-6

YEARS

NOV
MONTH

PAGE * 12 6-1413
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
47/60																		5	5																
47/61																		5	6																
47/62																		15	15																
47/57																		17	17	6															
47/55																		27	27	3	3														
47/51																		26	26	15	3														
47/49																		32	32	21	6														
47/47																		30	30	44	5														
47/45																		43	43	45	17														
47/43																		103	103	46	54														
47/41																		43	53	70	43														
47/39																		61	61	55	56														
47/37																		27	27	91	68														
47/35																		26	26	55	52														
47/33																		19	19	23	63														
47/31																		23	20	22	53														
47/29																		17	17	27	39														
47/27																		11	11	16	25														
47/25																		1	1	8	29														
47/23																					18														
47/21																					14														
TOTAL	4.2	20.1	37.3	24.6	4.0	.9	.2											549		549	549														

Element (X)	Σx^2	Σx	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3141418	4156	74.8	11.792	549	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 89 F	≤ 93 F	
Dry Bulb	1156938	24882	45.3	7.363	549		4.8					90
Wet Bulb	980455	22939	41.8	6.335	549		8.4					90
Dew Point	796369	20587	37.5	6.669	549		20.7					90

2

4

44-38861-10

YEARS

4-2-2
MONTH

PAGE 1

~~15-00-170~~
~~HOURS 1-5-1~~

0-26.5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1 0065 VAE KOCULNACH DL 1-87 YEARS DEC MONTH

PAGE 1 1000-800 HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
57/ 57																																		1	1		
56/ 55																																		2			
54/ 52																																		12	12		
52/ 51																																		12	12		
50/ 49																																		2	13	1	
48/ 47																																		9	9	7	4
47/ 46																																		34	34	15	17
46/ 45																																		16	16	2	14
44/ 43																																		23	27	25	23
42/ 41																																		40	40	10	15
40/ 39																																		40	40	62	29
38/ 37																																		46	46	34	26
36/ 35																																		26	26	55	40
34/ 33																																		18	13	29	41
32/ 31																																		24	24	26	42
30/ 29																																		21	21	12	43
28/ 27																																		11	12	10	14
26/ 25																																		13	13	16	3
24/ 23																																		17	17	15	15
22/ 21																																		4	4	9	1
20/ 19																																		6	6	6	1
18/ 17																																		2	2	2	6
16/ 15																																					3
14/ 13																																					2
12/ 11																																					3
10/ 7																																					2
8/ 5																																					3
TOTAL	24	53	51	9	1	2	6																											343	703	385	303

Element (X)	ΣX	ΣX^2	ΣX^3	ΣX^4	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	2651157	320229	85.7	0.869	383	$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	Total
Dry Bulb	526990	13780	36.0	9.337	383		29.1					43
Wet Bulb	478352	13166	34.4	8.212	383		32.8					43
Dew Point	415782	12230	31.9	8.131	383		48.6					43

PSYCHROMETRIC SUMMARY

YEARS

2.0
MONTH

DATE: 7-2-1977
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B.-W.B.	Dry Bulb	Wet Bulb	Dew Point													
57/57				.2																														
56/55				.2																														
55/53			.2	1.1																														
54/51		.2	.5	2.5																														
53/49			.5	3.5																														
52/47			1.7	1.2																														
51/45			3.9	3.4																														
50/43			3.9	1.3	1.5																													
49/41		.5	2.9	3.2	.5																													
48/39			9.7	1.7	.2																													
47/37	3.5	3.4	3.2																															
46/35	.5	7.2	2.4																															
45/33	2.5	4.2	1.5																															
44/31	1.2	3.4	.2																															
43/29	.8	4.4	.2																															
42/27	3.5	4.4	.7																															
41/25	.3	2.7	.3																															
40/23	.7	2.5	.2																															
39/21	1.2	1.5																																
38/19	.2	.2																																
37/17	1.5																																	
36/15	.3	.5																																
35/13	.2	.2																																
34/11	.5																																	
33/9	.2																																	
32/7																																		
TOTAL	15.5	50.5	52.2	4.2	.8													50.5		50.5		59.5												

Element (X)	$\Sigma x'$	Σx	\bar{x}	s_x^2	No. Obs.	Mean No. of Hours with Temperature					Total	
						+ 0 F	+ 32 F	+ 67 F	+ 73 F	+ 80 F	+ 93 F	
Rel. Hum.	42175.8	49738	83.61	7.229	595							
Dry Bulb	242274	21854	36.6	8.534	595		27.2					97
Wet Bulb	758229	20726	34.3	7.814	595		37.8					93
Dew Point	645215	19019	32.0	7.922	595		49.2					97

2

OFFICIAL CLIMATOLOGY BRANCH
USAFETAC
AIR FORCE AETHER SERVICE/MAC

PSYCHROMETRIC SUMMARY

1. 26. KAL BREUNACH DL
STATION NAME

YEARS

MONTH

HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B. W.B. Dry Bulb	TOTAL Wet Bulb Dew Point
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
1/ 11																																	1	1	
2/ 17																																	17	13	
3/ 25																																	13	13	
4/ 31																																	9	9	
5/ 41																																	22	22	
6/ 47																																	10	10	
7/ 48																																	42	42	
8/ 40																																	55	55	
9/ 41																																	57	57	
10/ 30																																	45	45	
11/ 37																																	56	56	
12/ 35																																	40	40	
13/ 33																																	31	31	
14/ 31																																	20	20	
15/ 29																																	27	27	
16/ 27																																	40	40	
17/ 25																																	11	11	
18/ 21																																	5	5	
19/ 19																																	2	2	
20/ 17																																	3	3	
21/ 15																																			
22/ 13																																			
23/ 11																																			
TOTAL	9.243	6.634	5.128	2.2																													553	553	

Element (X)	ΣX	ΣX^2	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	34728.13	43369	78.411	389	553	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	678268	21576	39.1	7.928	553		19.7					3
Wet Bulb	763166	20160	36.5	7.150	553		24.7					4
Dew Point	621162	18050	32.6	7.607	553		48.9					93

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM 0-26-5 (OL A)

USAFETAC

PSYCHROMETRIC SUMMARY

22-4-

YEARS

MONTH

2 - 17 - 1
HOURS 11.5.7.

[illegible]

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0.26.5 (01 A)

1000

USAFETAC

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1 6265 BAD KPEULNACH DL

73-83

STATION NO.	STATION NAME	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
HRN 1-10			MEAN 34.3	33.5	41.2	43.7	52.0	59.7	61.9	60.4	53.9	48.2	45.5	38.0	46.9
			S.D. 10.202	8.925	7.229	5.871	6.177	5.796	5.267	4.692	5.835	6.265	7.622	9.717	12.190
			TOTAL OBS 405	378	418	416	404	408	402	419	328	394	368	383	4724
11-20			MEAN 35.1	35.6	43.5	49.7	57.6	63.3	67.6	67.2	59.9	49.2	42.1	38.6	52.8
			S.D. 10.207	6.599	6.941	6.879	7.342	7.257	6.976	5.712	6.288	6.414	7.663	8.534	14.009
			TOTAL OBS 610	562	644	623	606	514	676	627	495	594	552	595	7133
21-30			MEAN 37.7	39.3	47.9	54.9	62.4	69.4	72.1	72.5	65.9	53.4	45.3	39.1	55.7
			S.D. 9.119	6.581	7.247	8.063	8.554	8.382	8.153	7.777	7.376	7.152	7.303	7.978	14.667
			TOTAL OBS 605	560	637	675	584	587	596	611	489	587	549	553	6963
31-40			MEAN 38.4	40.7	49.5	56.1	64.0	71.1	73.5	74.1	66.9	54.8	45.7	39.8	56.7
			S.D. 8.713	6.492	7.255	8.668	9.298	8.879	8.466	7.614	7.911	7.305	7.169	7.544	15.293
			TOTAL OBS 591	557	619	532	513	532	541	561	456	564	574	495	5464
41-50			MEAN												
			S.D.												
			TOTAL OBS												
51-60			MEAN												
			S.D.												
			TOTAL OBS												
61-70			MEAN												
			S.D.												
			TOTAL OBS												
71-80			MEAN												
			S.D.												
			TOTAL OBS												
81-90			MEAN												
			S.D.												
			TOTAL OBS												
91-100			MEAN												
			S.D.												
			TOTAL OBS												
ALL HOURS			MEAN 36.5	37.6	45.7	51.6	59.4	66.8	69.3	69.1	62.3	51.3	43.6	37.9	52.6
			S.D. 9.674	7.173	7.954	8.834	9.117	8.754	8.539	8.159	8.490	7.574	7.719	8.376	14.046
			TOTAL OBS 2217	2057	2318	2176	2107	2141	2144	2218	1768	2139	1973	2026	25284

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AFW WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATION

106267 BAD KREUZNACH DL

73-87

STATION NAME		YEAR											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
72-74	MEAN	32.3	32.2	38.2	40.7	48.	55.1	57.2	58.7	51.3	44.5	36.8	34.4
	S.D.	9.350	6.353	6.767	5.437	5.320	5.891	4.193	4.496	5.319	5.761	6.555	6.210
	TOTAL OBS	475	378	418	416	474	478	402	419	328	394	368	393
9-11	MEAN	33.3	33.7	41.3	44.1	51.9	57.4	59.7	59.8	54.9	48.5	39.8	34.4
	S.D.	9.337	5.860	6.147	5.494	5.449	5.424	4.546	4.885	4.985	5.557	6.93	7.514
	TOTAL OBS	615	562	644	623	606	614	676	627	495	594	552	540
12-14	MEAN	35.0	36.1	42.7	46.5	52.9	58.8	61.1	61.4	57.8	48.9	41.0	34.4
	S.D.	8.174	5.575	5.918	5.756	5.743	5.673	4.674	4.779	5.93	5.847	6.338	7.18
	TOTAL OBS	615	560	637	615	584	587	596	611	489	587	549	540
15-17	MEAN	35.	37.1	43.6	47.0	53.5	59.4	61.4	61.7	57.9	47.7	42.1	34.4
	S.D.	7.829	5.425	5.753	5.825	5.912	5.536	4.439	3.965	5.327	5.634	6.793	6.514
	TOTAL OBS	591	557	619	532	513	532	540	561	458	564	574	440
MEAN													
S.D.													
TOTAL OBS													
MEAN													
S.D.													
TOTAL OBS													
MEAN													
S.D.													
TOTAL OBS													
MEAN													
S.D.													
TOTAL OBS													
ALL HOURS	MEAN	34.4	35.0	41.5	44.8	51.5	57.8	60.0	60.1	55.7	47.6	40.8	34.4
	S.D.	8.722	6.042	6.411	6.091	5.959	5.657	4.747	4.516	5.714	5.960	6.712	7.540
	TOTAL OBS	2216	2157	2318	2176	2107	2141	2144	2216	1768	2139	1973	2026

GLOBAL CLIMATOLOGY BRANCH
USAF ETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

1 FT--0 LB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

106262 BAD KREUZNACH DL

73-83

STATION		STATION NAME												YEARS	
HRN	LT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
12-18	MEAN	32.6	32.2	36.2	42.7	48.0	55.1	57.2	56.7	51.3	44.5	36.8	34.4	44.2	
	S.D.	9.355	8.303	6.767	5.437	5.320	5.081	4.198	4.496	5.319	5.760	5.755	8.212	11.919	
	TOTAL OBS	475	378	412	416	474	408	402	419	326	394	366	383	4723	
10-11	MEAN	33.3	33.7	42.3	44.1	51.9	57.4	59.7	59.8	54.9	46.5	39.8	34.8	46.3	
	S.D.	9.337	5.860	6.147	5.494	5.449	5.404	4.546	4.385	4.985	5.557	6.830	7.814	11.461	
	TOTAL OBS	615	562	644	623	606	614	606	627	495	594	552	595	7133	
12-14	MEAN	35.2	36.1	42.7	46.5	52.9	56.8	61.1	61.4	57.6	46.9	41.8	37.5	48.3	
	S.D.	8.174	5.575	5.918	5.756	5.743	5.673	4.674	4.379	5.393	5.647	6.335	7.15	11.210	
	TOTAL OBS	615	560	637	615	584	547	596	611	489	587	549	553	6963	
15-17	MEAN	35.0	37.1	43.6	47.0	53.5	59.4	61.4	61.7	57.9	49.7	42.1	37.1	48.7	
	S.D.	7.820	5.425	5.753	5.825	5.912	5.536	4.439	3.965	5.327	5.634	6.293	6.629	11.062	
	TOTAL OBS	591	557	619	532	513	532	540	561	456	564	504	495	6464	
	MEAN														
	S.D.														
	TOTAL OBS														
	MEAN														
	S.D.														
	TOTAL OBS														
	MEAN														
	S.D.														
	TOTAL OBS														
	MEAN														
	S.D.														
	TOTAL OBS														
ALL HOURS	MEAN	34.4	35.0	41.5	44.8	51.5	57.8	60.0	60.1	55.7	47.6	40.8	35.8	47.0	
	S.D.	8.722	6.042	6.411	6.091	5.959	5.657	4.747	4.516	5.714	5.960	6.712	7.560	11.313	
	TOTAL OBS	2216	2057	2318	2176	2107	2141	2144	2216	1768	2139	1973	2026	25283	

GLOBAL CLIMATOLOGY BRANCH
 USAF ETAC
 AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

17-065 BAD KREUZNACH EL

73-83

STATION NAME		YEARS												
HR		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
6-14	MEAN	30.4	29.9	35.5	36.9	44.1	51.3	53.5	53.6	48.9	42.8	36.7	31.9	41.4
	S D	9.122	6.423	7.310	6.154	6.115	5.687	4.556	5.114	5.573	5.884	7.025	8.111	10.603
	TOTAL OBS	405	378	418	416	404	478	402	419	326	394	368	353	4727
6-21	MEAN	30.5	30.5	36.1	37.4	44.5	51.2	53.9	54.3	50.7	43.7	36.8	32.1	41.8
	S D	9.17	6.199	6.838	6.461	6.219	6.258	5.275	4.968	5.426	5.731	6.926	7.922	10.907
	TOTAL OBS	615	562	644	623	676	614	676	627	495	594	552	595	7133
12-14	MEAN	31.4	31.2	36.3	37.1	44.2	50.7	53.3	53.5	51.1	44.5	37.5	32.6	41.9
	S D	8.472	6.323	6.963	6.996	6.844	6.715	5.474	5.113	5.791	6.018	6.669	7.677	10.592
	TOTAL OBS	605	560	637	625	584	587	596	611	489	587	549	553	6963
15-17	MEAN	31.6	31.6	36.3	36.9	43.9	50.4	52.7	52.8	51.8	44.7	37.9	33.4	41.8
	S D	8.183	6.449	7.341	7.026	7.099	6.501	5.453	5.341	6.102	6.123	6.602	7.371	10.362
	TOTAL OBS	591	557	619	532	513	532	540	561	456	564	504	495	6464
	MEAN													
	S D													
	TOTAL OBS													
	MEAN													
	S D													
	TOTAL OBS													
	MEAN													
	S D													
	TOTAL OBS													
ALL HOURS	MEAN	31.1	31.0	36.1	37.1	44.2	50.9	53.4	53.6	50.5	44.0	37.3	32.5	41.7
	S D	8.712	6.375	7.095	6.697	6.580	6.351	5.250	5.159	5.778	5.980	6.798	7.762	10.665
	TOTAL OBS	2216	2057	2318	2176	2107	2141	2144	2218	1768	2139	1973	2026	25283

USAF ETAC FORM 0-89.5 (OL A)
 OCT 79

RELATIVE HUMIDITY

484

MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	100.0	99.3	91.9	76.5	35.1	84.1	405
	09-11	100.0	100.0	100.0	100.0	100.0	98.2	88.7	64.7	23.5	84.1	615
	12-14	100.0	100.0	100.0	100.0	99.8	95.7	74.7	41.5	15.2	78.6	675
	15-17	100.0	100.0	100.0	100.0	100.0	94.1	71.9	39.4	10.5	77.5	591
	18-20											
	21-23											
TOTALS		100.0	100.0	100.0	100.0	100.0	96.8	81.6	55.5	22.3	81.6	2216

0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

176265 BAD KREUZNACH DL

74-P3

FEB

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%	
FEB	01-02										
	03-05										
	06-08	100.0	100.0	100.0	100.0	100.0	99.7	93.4	79.9	4.7	378
	09-11	100.0	100.0	100.0	100.0	99.6	95.9	82.2	63.2	24.9	562
	12-14	100.0	100.0	100.0	98.6	95.7	82.3	57.7	36.3	11.6	560
	15-17	100.0	100.0	99.6	98.0	97.7	77.4	55.5	33.0	11.3	557
	18-20										
	21-23										
	TOTALS	100.0	100.0	99.9	99.2	96.3	88.8	72.2	53.1	22.1	2057

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

RELATIVE HUMIDITY

74-83

437

STATION NAME

PERIOD

MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.8	96.4	87.8	69.1	24.4	23.8	418
	09-11	100.0	100.0	100.0	99.7	97.8	87.6	67.4	38.	10.2	76.0	644
	12-14	100.0	100.0	99.2	95.1	87.3	62.8	38.1	15.5	7.2	65.0	637
	15-17	100.0	100.0	97.4	92.2	77.5	51.7	32.8	13.0	2.9	62.3	619
	18-20											
	21-23											
TOTALS		100.0	100.0	99.2	96.8	90.6	74.6	56.5	34.1	9.9	71.9	2318

USAFETAC FORM 0-87-5 (OL A)

RELATIVE HUMIDITY

106

MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.7	92.8	73.6	42.3	9.4	77.5	416
	09-11	100.0	100.0	99.8	96.0	82.7	50.3	33.5	11.1	1.9	64.1	623
	12-14	100.0	100.0	93.9	78.2	53.4	30.6	15.2	5.5	1.5	53.4	675
	15-17	100.0	99.6	90.0	69.2	46.8	27.4	13.7	5.5	1.7	51.3	572
	18-20											
	21-23											
TOTALS		100.0	99.9	95.9	85.9	70.3	52.3	35.1	16.2	3.4	61.6	2176

USAFETAC FORM 0-87-5 (OL A)
JUL 64

RELATIVE HUMIDITY

74-87

44Y

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	97.8	89.9	69.3	30.7	7.7	75.2	474
	09-11	100.0	100.0	100.0	96.0	87.0	54.6	37.7	12.5	3.8	63.2	606
	12-14	100.0	100.0	95.9	77.1	51.0	31.0	18.8	7.4	1.9	53.7	584
	15-17	100.0	100.0	91.8	64.5	40.0	28.5	16.8	6.2	1.6	5 .8	513
	18-20											
	21-23											
TOTALS		100.0	100.0	96.9	84.4	68.7	51.0	33.8	14.2	3.8	67.7	2177

FORM
10-71 6-4

0-87-5 (OL A)

RELATIVE HUMIDITY

77-60

409

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
JUN	00-02											
	03-05											
	06-08	100.0	100.0	100.0	99.8	98.8	95.0	71.1	26.2	2.9	74.3	478
	09-11	100.0	100.0	100.0	95.1	79.2	52.3	26.5	8.5	.3	61.7	614
	12-14	100.0	100.0	97.4	78.9	57.9	29.5	13.1	3.4	.5	53.1	587
	15-17	100.0	100.0	93.4	70.9	44.4	23.9	9.2	3.4	.6	50.0	532
	18-20											
	21-23											

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

RELATIVE HUMIDITY

77-62

11

STATION

STATION NAME

PERIOD

MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%	
JUL	00-02										
	03-05										
	06-08	100.0	100.0	100.0	99.5	97.3	89.6	71.4	28.4	4.7	74.8
	09-11	100.0	99.7	99.2	96.7	81.5	55.6	33.	11.6	1.7	63.2
	12-14	100.0	99.5	95.8	80.5	55.2	28.4	15.4	5.7	.3	53.7
	15-17	100.0	99.3	91.9	70.6	43.7	23.5	12.8	4.6	1.3	50.5
	18-20										
	21-23										
TOTALS		100.0	99.6	96.7	86.8	69.4	49.3	33.2	12.6	2.0	60.6

USAFETAC

FORM 0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

106265 041 KREUTZNACH DL
STATION

73-87

AUG
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%	
AUG	00-02										
	03-05										
	06-08	100.0	100.0	100.0	100.0	99.5	97.1	86.6	40.3	10.0	419
	09-11	100.0	100.0	100.0	98.6	86.3	51.1	30.5	11.5	2.9	627
	12-14	100.0	100.0	97.1	90.0	80.2	27.0	12.4	5.9	.2	611
	15-17	100.0	99.3	92.7	67.7	42.2	22.5	17.2	4.3	.5	561
	18-20										
	21-23										
TOTALS		100.0	99.8	97.5	86.6	69.6	51.7	35.7	15.6	3.4	2218

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

RELATIVE HUMIDITY

1. 4265 BAD KREULNACH DL 73-87 SEP MONTH
STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	100.0	99.1	91.5	64.6	19.8	83.5	328
	09-11	100.0	100.0	100.0	99.4	96.6	84.0	59.8	25.5	6.3	72.5	495
	12-14	100.0	100.0	99.6	93.3	73.5	46.4	22.9	9.0	.4	67.1	489
	15-17	100.0	100.0	99.5	98.2	69.3	39.5	19.5	6.6	.7	57.8	456
	18-20											
	21-23											
TOTALS		100.0	100.0	99.5	95.2	84.9	67.3	48.5	26.4	6.8	68.5	1768

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/TAC

RELATIVE HUMIDITY

1 6255 BAD KREUZNACH DL 77-21 107
STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS LISTED	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%	
OCT	00-02										
	03-05										
	06-08	100.0	100.0	100.0	100.0	99.7	99.5	97.5	79.4	45.7	394
	09-11	100.0	100.0	100.0	100.0	99.7	97.3	66.2	56.9	26.9	594
	12-14	100.0	100.0	100.0	99.3	95.2	92.5	61.5	25.6	8.0	587
	15-17	100.0	100.0	100.0	98.7	93.1	72.7	51.6	22.9	5.6	564
	18-20										
	21-23										
TOTALS		100.0	100.0	100.0	99.3	97.0	82.0	74.2	47.0	21.8	2139

RELATIVE HUMIDITY

77-5.

10

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20	30%	40%	50%	60	70	80			90
NOV	02-01											
	02-05											
	06-08	100.0	100.0	100.0	100.0	100.0	99.2	97.2	76.5	37.8	86.7	366
	09-11	100.0	100.0	100.0	100.0	99.6	98.6	85.5	57.5	22.3	51.1	552
	12-14	100.0	100.0	100.0	100.0	99.4	89.4	61.2	29.3	10.4	24.8	349
	15-17	100.0	100.0	100.0	100.0	99.4	91.9	62.5	28.3	8.1	24.6	574
	18-2											
	01-23											
TOTALS		100.0	100.0	100.0	100.0	99.4	94.5	75.6	48.1	10.8	29.6	1973

GENERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

RELATIVE HUMIDITY

174065 HAD FREULMACH DL
STATION

STATION NAME

77-5

PERIOD

10
MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS EST.	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10	20	30	40	50	60	70	80	90		
DEC	01-02											
	03-05											
	06-08	100.0	100.0	100.0	100.0	99.7	98.7	97.0	72.7	34.7	85.7	393
	09-11	100.0	100.0	100.0	100.0	100.0	98.2	87.4	64.7	26.7	87.6	395
	12-14	100.0	100.0	100.0	100.0	99.1	92.8	73.6	43.6	15.4	75.4	357
	15-17	100.0	100.0	100.0	100.0	98.9	93.9	75.7	41.7	14.9	74.6	495
	18-20											
	21-23											
TOTALS		100.0	100.0	100.0	100.0	99.4	95.9	82.1	55.6	22.9	81.6	1205

USAFETAC

FORM
JUL 64

0-87-5 (OL A)

AD-A140 243

BAD KREUZNACH GERMANY(WEST) LIMITED SURFACE
OBSERVATIONS CLIMATIC SUMMARY..(U) AIR FORCE
ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER SCOTT A..
23 JAN 84 USAFETAC/DS-84/003 F/G 4/2

3/3

UNCLASSIFIED

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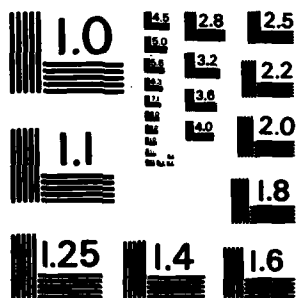


END

DATE

FILED

84



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART F

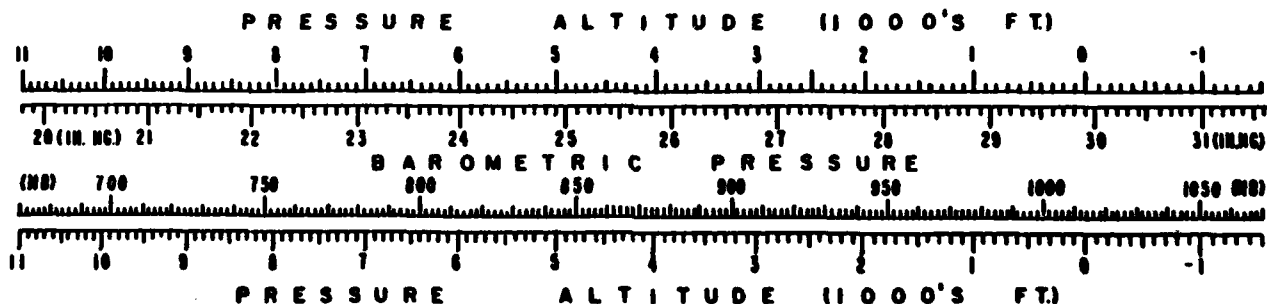
PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars. DATA NOT AVAILABLE

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

106265 BAD KREUZNACH DL

73-83

STATION		STATION NAME												YEARS											
HRS (LST.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL											
01	MEAN																								
	S D																								
	TOTAL OBS																								
04	MEAN																								
	S D																								
	TOTAL OBS																								
07	MEAN	29.678	29.645	29.578	29.617	29.608	29.664	29.646	29.689	29.713	29.632	29.688	29.573	29.643											
	S D.	.325	.370	.288	.217	.210	.162	.152	.151	.217	.304	.309	.407	.273											
	TOTAL OBS	202	189	203	208	202	204	201	209	164	197	184	183	2346											
10	MEAN	29.702	29.659	29.587	29.625	29.607	29.667	29.646	29.695	29.725	29.648	29.713	29.611	29.655											
	S D	.326	.371	.283	.217	.211	.161	.152	.150	.211	.307	.304	.415	.274											
	TOTAL OBS	205	187	215	208	202	205	203	209	165	198	184	198	2379											
13	MEAN	29.684	29.652	29.574	29.600	29.596	29.653	29.629	29.675	29.700	29.634	29.705	29.588	29.639											
	S D.	.327	.366	.278	.213	.201	.160	.150	.145	.208	.307	.295	.412	.271											
	TOTAL OBS	201	187	213	202	194	194	198	204	163	194	183	185	2310											
16	MEAN	29.664	29.635	29.553	29.576	29.576	29.633	29.612	29.654	29.677	29.629	29.701	29.584	29.622											
	S D.	.331	.349	.274	.239	.193	.156	.146	.142	.208	.296	.305	.411	.265											
	TOTAL OBS	197	185	211	202	194	195	199	204	162	185	162	168	2260											
19	MEAN																								
	S D.																								
	TOTAL OBS																								
22	MEAN																								
	S D.																								
	TOTAL OBS																								
ALL HOURS	MEAN	29.682	29.648	29.573	29.605	29.597	29.655	29.633	29.678	29.704	29.636	29.702	29.589	29.646											
	S D.	.327	.363	.281	.215	.204	.160	.151	.148	.211	.303	.303	.411	.272											
	TOTAL OBS	805	748	842	820	792	798	801	826	654	779	718	739	9307											